# Show Commands

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

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

**Command Default**    None

**Command Modes**    Any command mode

| Command History | Release | Modification |
|---|---|---|
| | 5.2(1)N1(1) | This command was introduced. |

**Usage Guidelines**    This command requires the LAN Base Services license.

**Examples**    This example shows how to display MSDP counts:

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

# 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 | | |
|---|---|---|
| | **errors** | Displays events of type error. |
| | **msgs** | Displays events of type msg. |
| | **statistics** | Displays events of type statistics. |

**Command Default**    None

**Command Modes**    Any command mode

| Command History | Release | Modification |
|---|---|---|
| | 5.2(1)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 |
|---|---|---|
| | **clear ip msdp event-history** | Clears the contents of the MSDP event history buffers. |
| | **ip msdp event-history** | Configures the size of MSDP event history buffers. |

# 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**}]

**Syntax Description**

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

**Command Default**     None

**Command Modes**     Any command mode

**Command History**

| Release | Modification |
|---|---|
| 5.2(1)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 mesh groups:

```
switch(config)# show ip msdp mesh-group
```

# 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**}]

**Syntax Description**

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

**Command Default**    None

**Command Modes**    Any command mode

**Command History**

| Release | Modification |
|---|---|
| 5.2(1)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 peers:

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

# 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**

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

**Command Default**    None

**Command Modes**    Any command mode

**Command History**

| Release | Modification |
|---|---|
| 5.2(1)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 SA policies:

```
switch(config)# show ip msdp policy statistics sa-policy 192.168.1.10 in
```

# 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**

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

**Command Default** None

**Command Modes** Any command mode

**Command History**

| Release | Modification |
|---|---|
| 5.2(1)N1(1) | This command was introduced. |

**Usage Guidelines** The **show ip msdp sa-cache** 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 route
```

**Related Commands**

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

# 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**

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

**Command Default**    None

**Command Modes**    Any command mode

**Command History**

| Release | Modification |
|---|---|
| 5.2(1)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 reverse path forwarding (RPF) peers:

```
switch(config)# show ip msdp rpf 192.168.1.10
```

# 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**

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

**Command Default**  None

**Command Modes**  Any command mode

**Command History**

| Release | Modification |
|---|---|
| 5.2(1)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 |
|---|---|
| **clear ip msdp sa-cache** | Clears routes in the MSDP Source-Active cache. |
| **show ip msdp route** | Displays information about the MSDP SA cache. |

# 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**

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

**Command Default**    None

**Command Modes**    Any command mode

**Command History**

| Release | Modification |
|---|---|
| 5.2(1)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 |
|---|---|
| **clear ip msdp sa-cache** | Clears routes in the MSDP Source-Active cache. |
| **show ip msdp route** | Displays information about the MSDP SA cache. |

# 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**

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

**Command Default**    None

**Command Modes**    Any command mode

**Command History**

| Release | Modification |
|---|---|
| 5.2(1)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
```

# 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**

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

**Command Default**    None

**Command Modes**    Any command mode

**Command History**

| Release | Modification |
|---|---|
| 5.2(1)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
```

# 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**]

| Syntax Description | **all** | (Optional) Displays configured and default information. |
| --- | --- | --- |

**Command Default**  None

**Command Modes**  Any command mode

| Command History | Release | Modification |
| --- | --- | --- |
| | 5.2(1)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 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 5.2(1)N1(1)
feature msdp


switch(config)#
```

# 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**]

**Syntax Description**

| all | (Optional) Displays configured and default information. |
|-----|--------------------------------------------------------|

**Command Default**    None

**Command Modes**    Any command mode

**Command History**

| Release | Modification |
|---------|--------------|
| 5.2(1)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 the startup-system configuration for MSDP:

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