



# Show Commands

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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**}]

<b>Syntax Description</b>	<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.

**Command Default** None

**Command Modes** Any command mode

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)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

<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
6.0(2)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.

# 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.

**Command Default** None

**Command Modes** Any command mode

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)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**}]

<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
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<b>Command Modes</b>	Any command mode
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

<b>Usage Guidelines</b>	This command requires the LAN Base Services license.
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<b>Examples</b>	This example shows how to display information about MSDP peers:
	<pre>switch(config)# show ip msdp peer</pre>

# 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.

## Command Default

None

## Command Modes

Any command mode

## Command History

Release	Modification
6.0(2)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	
<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
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Command Modes	Any command mode
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines	<p>The <b>show ip msdp sa-cache</b> command is an alternative form of this command.</p> <p>This command requires the LAN Base Services license.</p>
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Examples	<p>This example shows how to display information about the MSDP SA cache:</p> <pre>switch(config)# <b>show ip msdp route</b></pre>
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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.

# 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**}]

<b>Syntax Description</b>	<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

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)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	<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
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Command Modes	Any command mode
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines	The <b>show ip msdp route</b> command is an alternative form of this command. This command requires the LAN Base Services license.
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Examples	This example shows how to display information about the MSDP SA cache: <pre>switch(config)# <b>show ip msdp sa-cache</b></pre>
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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.

# 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
6.0(2)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.

# 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
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Command Modes	Any command mode
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines	This command requires the LAN Base Services license.
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Examples	<p>This example shows how to display information about MSDP learned sources:</p> <pre>switch(config)# <b>show ip msdp sources</b></pre>
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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**}]

<b>Syntax Description</b>	<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
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<b>Command Modes</b>	Any command mode
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

<b>Usage Guidelines</b>	This command requires the LAN Base Services license.
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<b>Examples</b>	This example shows how to display summary information about MSDP peers:
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```
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]**

<b>Syntax Description</b>	<b>all</b> (Optional) Displays configured and default information.
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<b>Command Default</b>	None
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<b>Command Modes</b>	Any command mode
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

<b>Usage Guidelines</b>	This command requires the LAN Base Services license.
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<b>Examples</b>	This example shows how to display information about the MSDP running-system configuration:
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```
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)#
```

# 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>
	6.0(2)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 the startup-system configuration for MSDP:</p> <pre>switch(config)# <b>show startup-config msdp</b></pre>	