



# 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}]
```

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.

**Command Default** None

**Command Modes** Any command mode

**Supported Use Roles** network-admin  
network-operator  
vdc-admin  
vdc-operator

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 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

**Supported Use Roles** network-admin  
network-operator  
vdc-admin  
vdc-operator

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

**Usage Guidelines** This command does not require a license.

**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}]
```

Syntax Description	
<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

**Supported Use Roles**

- network-admin
- network-operator
- vdc-admin
- vdc-operator

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 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	
<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.

**Command Default** None

**Command Modes** Any command mode

**Supported User Roles**

- network-admin
- network-operator
- vdc-admin
- vdc-operator

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 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	
<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

**Supported User Roles** network-admin  
network-operator  
vdc-admin  
vdc-operator

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

**Command Modes** Any command mode

**Supported User Roles** network-admin  
network-operator  
vdc-admin  
vdc-operator

Command History	Release	Modification
	6.0(2)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
```

■ show ip msdp route

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}]
```

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

**Supported User Roles** network-admin  
network-operator  
vdc-admin  
vdc-operator

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 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

**Command Modes** Any command mode

**Supported Use Roles** network-admin  
network-operator  
vdc-admin  
vdc-operator

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**

<b>Command</b>	<b>Description</b>
<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

**Supported Use Roles**

- network-admin
- network-operator
- vdc-admin
- vdc-operator

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**

<b>Command</b>	<b>Description</b>
<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

**Command Modes** Any command mode

**Supported Use Roles** network-admin  
network-operator  
vdc-admin  
vdc-operator

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 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	Parameter	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

**Supported Use Roles**

- network-admin
- network-operator
- vdc-admin
- vdc-operator

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 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]**

<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>SupportedUseRoles</b>	network-admin network-operator vdc-admin vdc-operator
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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.
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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>Supported Use Roles</b>	network-admin network-operator vdc-admin vdc-operator
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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 startup-system configuration for MSDP: <pre>switch(config)# show startup-config msdp</pre>
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■ show startup-config msdp