



CHAPTER 1

Configuring MSDP

This chapter describes how to configure Multicast Source Discovery Protocol (MSDP) on a Cisco NX-OS device.

This chapter includes the following sections:

- [Information About MSDP, page 1-1](#)
- [Licensing Requirements for MSDP, page 1-3](#)
- [Prerequisites for MSDP, page 1-4](#)
- [Default Settings, page 1-4](#)
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Information About MSDP

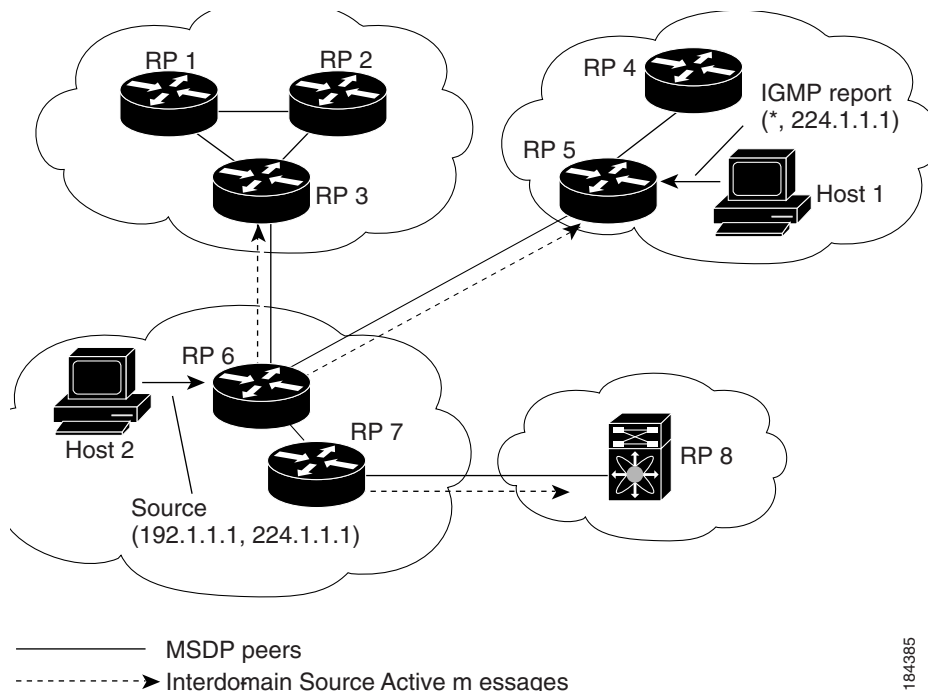
You can use the Multicast Source Discovery Protocol (MSDP) to exchange multicast source information between multiple BGP-enabled Protocol Independent Multicast (PIM) sparse-mode domains. For information about PIM, see [Chapter 1, “Configuring PIM and PIM6.”](#) For information about BGP, see the *Cisco Nexus 7000 Series NX-OS Unicast Routing Configuration Guide, Release 5.x*.

When a receiver for a group matches the group transmitted by a source in another domain, the rendezvous point (RP) sends PIM join messages in the direction of the source to build a shortest path tree. The designated router (DR) sends packets on the source-tree within the source domain, which may travel through the RP in the source domain and along the branches of the source-tree to other domains. In domains where there are receivers, RPs in those domains can be on the source-tree. The peering relationship is conducted over a TCP connection.

[Figure 1-1](#) shows four PIM domains. The connected RPs (routers) are called MSDP peers because each RP maintains its own set of multicast sources. Source host 2 sends the multicast data to group 224.1.1.1. On RP 6, the MSDP process learns about the source through PIM register messages and generates Source-Active (SA) messages to its MSDP peers that contain information about the sources in its domain. When RP 3 and RP 5 receive the SA messages, they forward them to their MSDP peers. When RP 5 receives the request from host 2 for the multicast data on group 224.1.1.1, it builds a shortest path tree to the source by sending a PIM join message in the direction of host 1 at 192.1.1.1.

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Figure 1-1 MSDP Peering Between RPs in Different PIM Domains



When you configure MSDP peering between each RP, you create a full mesh. Full MSDP meshing is typically done within an autonomous system, as shown between RPs 1, 2, and 3, but not across autonomous systems. You use BGP to do loop suppression and MSDP peer-RPF to suppress looping SA messages. For more information about mesh groups, see the “[MSDP Mesh Groups](#)” section on page 1-3.



Note

You do not need to configure MSDP in order to use Anycast-RP (a set of RPs that can perform load balancing and failover) within a PIM domain. For more information, see the “[Configuring a PIM Anycast-RP Set](#)” section on page 1-37.

For detailed information about MSDP, see [RFC 3618](#).

This section includes the following topics:

- [SA Messages and Caching](#), page 1-2
- [MSDP Peer-RPF Forwarding](#), page 1-3
- [MSDP Mesh Groups](#), page 1-3
- [Virtualization Support](#), page 1-3

SA Messages and Caching

MSDP peers exchange Source-Active (SA) messages that the MSDP software uses to propagate information about active sources. SA messages contain the following information:

- Source address of the data source
- Group address that the data source uses
- IP address of the RP or the configured originator ID

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When a PIM register message advertises a new source, the MSDP process reencapsulates the message in an SA message that is immediately forwarded to all MSDP peers.

The SA cache holds the information for all sources learned through SA messages. Caching reduces the join latency for new receivers of a group because the information for all known groups can be found in the cache. You can limit the number of cached source entries by configuring the SA limit peer parameter. You can limit the number of cached source entries for a specific group prefix by configuring the group limit global parameter.

The MSDP software sends SA messages for each group in the SA cache every 60 seconds or at the configured SA interval global parameter. An entry in the SA cache is removed if an SA message for that source and group is not received within SA interval plus 3 seconds.

MSDP Peer-RPF Forwarding

MSDP peers forward the SA messages that they receive away from the originating RP. This action is called peer-RPF flooding. The router examines the BGP or MBGP routing table to determine which peer is the next hop in the direction of the originating RP of the SA message. This peer is called a reverse path forwarding (RPF) peer.

If the MSDP peer receives the same SA message from a non-RPF peer in the direction of the originating RP, it drops the message. Otherwise, it forwards the message to all its MSDP peers.

MSDP Mesh Groups

You can use MSDP mesh groups to reduce the number of SA messages that are generated by peer-RPF flooding. In [Figure 1-1](#), RPs 1, 2, and 3 receive SA messages from RP 6. By configuring a peering relationship between all the routers in a mesh and then configuring a mesh group of these routers, the SA messages that originate at a peer are sent by that peer to all other peers. SA messages received by peers in the mesh are not forwarded. An SA message that originates at RP 3 is forwarded to RP 1 and RP 2, but these RPs do not forward those messages to other RPs in the mesh.

A router can participate in multiple mesh groups. By default, no mesh groups are configured.

Virtualization Support

A virtual device context (VDC) is a logical representation of a set of system resources. Within each VDC, you can define multiple virtual routing and forwarding (VRF) instances. The MSDP configuration applies to the VRF selected within the current VDC.

You can use the **show** commands with a VRF argument to provide a context for the information displayed. The default VRF is used if no VRF argument is supplied.

For information about configuring VDCs, see the *Cisco Nexus 7000 Series NX-OS Virtual Device Context Configuration Guide, Release 4.2*.

For information about configuring VRFs, see the *Cisco Nexus 7000 Series NX-OS Unicast Routing Configuration Guide, Release 5.x*.

Licensing Requirements for MSDP

The following table shows the licensing requirements for this feature:

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Product	License Requirement
Cisco NX-OS	MSDP requires an Enterprise Services license. For a complete explanation of the Cisco NX-OS licensing scheme and how to obtain and apply licenses, see the <i>Cisco NX-OS Licensing Guide</i> .

Prerequisites for MSDP

MSDP has the following prerequisites:

- You are logged onto the device.
- You are in the correct virtual device context (VDC). A VDC is a logical representation of a set of system resources. You can use the **switchto vdc** command with a VDC number.
- For global commands, you are in the correct virtual routing and forwarding (VRF) mode. The default configuration mode shown in the examples in this chapter applies to the default VRF.
- You configured PIM for the networks where you want to configure MSDP.

Default Settings

[Table 1-1](#) lists the default settings for MSDP parameters.

Table 1-1 Default MSDP Parameters

Parameters	Default
Description	Peer has no description
Administrative shutdown	Peer is enabled when it is defined
MD5 password	No MD5 password is enabled
SA policy IN	All SA messages are received
SA policy OUT	All registered sources are sent in SA messages
SA limit	No limit is defined
Originator interface name	RP address of the local system
Group limit	No group limit is defined
SA interval	60 seconds

Configuring MSDP

You can establish MSDP peering by configuring the MSDP peers within each PIM domain.

To configure MSDP peering, follow these steps:

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- Step 1** Select the routers to act as MSDP peers.
- Step 2** Enable the MSDP feature. See the [“Enabling the MSDP Feature”](#) section on page 1-5.

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- Step 3** Configure the MSDP peers for each router identified in Step 1. See the “[Configuring MSDP Peers](#)” section on page 1-6.
- Step 4** Configure the optional MSDP peer parameters for each MSDP peer. See the “[Configuring MSDP Peer Parameters](#)” section on page 1-7.
- Step 5** Configure the optional global parameters for each MSDP peer. See the “[Configuring MSDP Global Parameters](#)” section on page 1-10.
- Step 6** Configure the optional mesh groups for each MSDP peer. See the “[Configuring MSDP Mesh Groups](#)” section on page 1-11.
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**Note**

The MSDP commands that you enter before you enable MSDP are cached and then run when MSDP is enabled. Use the **ip msdp peer** or **ip msdp originator-id** command to enable MSDP.

This section includes the following topics:

- [Enabling the MSDP Feature, page 1-5](#)
- [Configuring MSDP Peers, page 1-6](#)
- [Configuring MSDP Peer Parameters, page 1-7](#)
- [Configuring MSDP Global Parameters, page 1-10](#)
- [Configuring MSDP Mesh Groups, page 1-11](#)
- [Restarting the MSDP Process, page 1-12](#)

**Note**

If you are familiar with the Cisco IOS CLI, be aware that the Cisco NX-OS commands for this feature might differ from the Cisco IOS commands that you would use.

Enabling the MSDP Feature

Before you can access the MSDP commands, you must enable the MSDP feature.

SUMMARY STEPS

1. **config t**
2. **feature msdp**
3. (Optional) **show running-configuration | grep feature**
4. (Optional) **copy running-config startup-config**

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DETAILED STEPS

	Command	Purpose
Step 1	config t Example: switch# config t switch(config)#	Enters configuration mode.
Step 2	feature msdp Example: switch# feature msdp	Enables the MSDP feature so that you can enter MSDP commands. By default, the MSDP feature is disabled.
Step 3	show running-configuration grep feature Example: switch# show running-configuration grep feature	(Optional) Shows feature commands that you specified.
Step 4	copy running-config startup-config Example: switch(config)# copy running-config startup-config	(Optional) Saves configuration changes.

Configuring MSDP Peers

You can configure an MSDP peer when you configure a peering relationship with each MSDP peer that resides either within the current PIM domain or in another PIM domain. MSDP is enabled on the router when you configure the first MSDP peering relationship.

BEFORE YOU BEGIN

Ensure that you have installed the Enterprise Services license and enabled PIM and MSDP.

Ensure that you configured BGP and PIM in the domains of the routers that you will configure as MSDP peers.

SUMMARY STEPS

1. **config t**
2. **ip msdp peer peer-ip-address connect-source interface [remote-as as-number]**
3. Repeat Step 2 for each MSDP peering relationship.
4. (Optional) **show ip msdp summary [vrf vrf-name | known-vrf-name | all]**
5. (Optional) **copy running-config startup-config**

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DETAILED STEPS

	Command	Purpose
Step 1	config t Example: switch# config t switch(config)#	Enters configuration mode.
Step 2	ip msdp peer <i>peer-ip-address</i> connect-source <i>interface</i> [remote-as <i>as-number</i>] Example: switch(config)# ip msdp peer 192.168.1.10 connect-source ethernet 2/1 remote-as 8	Configures an MSDP peer with the specified peer IP address. The software uses the source IP address of the interface for the TCP connection with the peer. The interface can take the form of <i>type slot/port</i> . If the AS number is the same as the local AS, then the peer is within the PIM domain; otherwise, this peer is external to the PIM domain. By default, MSDP peering is disabled. Note MSDP peering is enabled when you use this command.
Step 3	Repeat Step 2 for each MSDP peering relationship by changing the peer IP address, the interface, and the AS number as appropriate.	—
Step 4	show ip msdp summary [vrf <i>vrf-name</i> <i>known-vrf-name</i> all] Example: switch# show ip msdp summary	(Optional) Displays a summary of MDSP peers.
Step 5	copy running-config startup-config Example: switch(config)# copy running-config startup-config	(Optional) Saves configuration changes.

Configuring MSDP Peer Parameters

You can configure the optional MSDP peer parameters described in [Table 1-2](#). You configure these parameters in global configuration mode for each peer based on its IP address.

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Table 1-2 *MSDP Peer Parameters*

Parameter	Description
Description	Description string for the peer. By default, the peer has no description.
Administrative shutdown	Method to shut down the MSDP peer. The configuration settings are not affected by this command. You can use this parameter to allow configuration of multiple parameters to occur before making the peer active. The TCP connection with other peers is terminated by the shutdown. By default, a peer is enabled when it is defined.
MD5 password	MD5-shared password key used for authenticating the peer. By default, no MD5 password is enabled.
SA policy IN	Route-map policy ¹ for incoming SA messages. By default, all SA messages are received.
SA policy OUT	Route-map policy ¹ for outgoing SA messages. By default, all registered sources are sent in SA messages.
SA limit	Number of (S, G) entries accepted from the peer and stored in the SA cache. By default, there is no limit.

1. To configure route-map policies, see the *Cisco Nexus 7000 Series NX-OS Unicast Routing Configuration Guide, Release 5.x*.

For information about configuring multicast route maps, see the “[Configuring Route Maps to Control RP Information Distribution](#)” section on page 1-45.



Note

For information about configuring mesh groups, see the “[Configuring MSDP Mesh Groups](#)” section on page 1-11.

BEFORE YOU BEGIN

Ensure that you have installed the Enterprise Services license and enabled PIM and MSDP.

SUMMARY STEPS

1. **config t**
2. **ip msdp description** *peer-ip-address string*
ip msdp shutdown *peer-ip-address*
ip msdp password *peer-ip-address password*
ip msdp sa-policy *peer-ip-address policy-name in*
ip msdp sa-policy *peer-ip-address policy-name out*
ip msdp sa-limit *peer-ip-address limit*

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3. (Optional) `show ip msdp peer [peer-address] [vrf vrf-name | known-vrf-name | all]`
4. (Optional) `copy running-config startup-config`

DETAILED STEPS

	Command	Purpose
Step 1	config t Example: switch# config t switch(config)#	Enters configuration mode.
Step 2	ip msdp description <i>peer-ip-address</i> <i>string</i> Example: switch(config)# ip msdp description 192.168.1.10 peer in Engineering network	Sets a description string for the peer. By default, the peer has no description.
	ip msdp shutdown <i>peer-ip-address</i> Example: switch(config)# ip msdp shutdown 192.168.1.10	Shuts down the peer. By default, the peer is enabled when it is defined.
	ip msdp password <i>peer-ip-address</i> <i>password</i> Example: switch(config)# ip msdp password 192.168.1.10 my_md5_password	Enables an MD5 password for the peer. By default, no MD5 password is enabled.
	ip msdp sa-policy <i>peer-ip-address</i> <i>policy-name in</i> Example: switch(config)# ip msdp sa-policy 192.168.1.10 my_incoming_sa_policy in	Enables a route-map policy for incoming SA messages. By default, all SA messages are received.
	ip msdp sa-policy <i>peer-ip-address</i> <i>policy-name out</i> Example: switch(config)# ip msdp sa-policy 192.168.1.10 my_outgoing_sa_policy out	Enables a route-map policy for outgoing SA messages. By default, all registered sources are sent in SA messages.
	ip msdp sa-limit <i>peer-ip-address</i> <i>limit</i> Example: switch(config)# ip msdp sa-limit 192.168.1.10 5000	Sets a limit on the number of (S, G) entries accepted from the peer. By default, there is no limit.
Step 3	show ip msdp peer [<i>peer-address</i>] [vrf <i>vrf-name</i> <i>known-vrf-name</i> all] Example: switch# show ip msdp peer 1.1.1.1	(Optional) Displays detailed MDSP peer information.
Step 4	copy running-config startup-config Example: switch(config)# copy running-config startup-config	(Optional) Saves configuration changes.

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Configuring MSDP Global Parameters

You can configure the optional MSDP global parameters described in [Table 1-3](#).

Table 1-3 *MSDP Global Parameters*

Parameter	Description
Originator interface name	IP address used in the RP field of an SA message entry. When Anycast RPs are used, all RPs use the same IP address. You can use this parameter to define a unique IP address for the RP of each MSDP peer. By default, the software uses the RP address of the local system. Note We recommend that you use a loopback interface for the RP address.
Group limit	Maximum number of (S, G) entries that the software creates for the specified prefix. The software ignores groups when the group limit is exceeded and logs a violation. By default, no group limit is defined.
SA interval	Interval at which the software transmits Source-Active (SA) messages. The range is from 60 to 65,535 seconds. The default is 60 seconds.

BEFORE YOU BEGIN

Ensure that you have installed the Enterprise Services license and enabled PIM and MSDP.

SUMMARY STEPS

1. **config t**
2. **ip msdp originator-id** *interface*
ip msdp group-limit *limit* **source** *source-prefix*
ip msdp sa-interval *seconds*
3. (Optional) **show ip msdp summary** [**vrf** *vrf-name* | *known-vrf-name* | **all**]
4. (Optional) **copy running-config startup-config**

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DETAILED STEPS

	Command	Purpose
Step 1	config t Example: switch# config t switch(config)#	Enters configuration mode.
Step 2	ip msdp originator-id interface Example: switch(config)# ip msdp originator-id loopback0	Sets the IP address used in the RP field of an SA message entry. The interface can take the form of <i>type slot/port</i> . By default, the software uses the RP address of the local system. Note We recommend that you use a loopback interface for the RP address.
	ip msdp group-limit limit source source-prefix Example: switch(config)# ip msdp group-limit 1000 source 192.168.1.0/24	Maximum number of (S, G) entries that the software creates for the specified prefix. The software ignores groups when the group limit is exceeded and logs a violation. By default, no group limit is defined.
	ip msdp sa-interval seconds Example: switch(config)# ip msdp sa-interval 80	Interval at which the software transmits Source-Active (SA) messages. The range is from 60 to 65,535 seconds. The default is 60 seconds.
Step 3	show ip msdp summary [vrf vrf-name known-vrf-name all] Example: switch# show ip msdp summary	(Optional) Displays a summary of the MDSP configuration.
Step 4	copy running-config startup-config Example: switch(config)# copy running-config startup-config	(Optional) Saves configuration changes.

Configuring MSDP Mesh Groups

You can configure optional MDSP mesh groups in global configuration mode by specifying each peer in the mesh. You can configure multiple mesh groups on the same router and multiple peers per mesh group.

BEFORE YOU BEGIN

Ensure that you have installed the Enterprise Services license and enabled PIM and MSDP.

SUMMARY STEPS

1. **config t**
2. **ip msdp mesh-group peer-ip-addr mesh-name**
3. Repeat Step 2 for each MSDP peer in the mesh.
4. **show ip msdp mesh-group [mesh-group] [vrf vrf-name | known-vrf-name | all]**

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5. copy running-config startup-config

DETAILED STEPS

	Command	Purpose
Step 1	config t Example: switch# config t switch(config)#	Enters configuration mode.
Step 2	ip msdp mesh-group <i>peer-ip-addr</i> <i>mesh-name</i> Example: switch(config)# ip msdp mesh-group 192.168.1.10 my_mesh_1	Configures an MSDP mesh with the peer IP address specified. You can configure multiple meshes on the same router and multiple peers per mesh group. By default, no mesh groups are configured.
Step 3	Repeat Step 2 for each MSDP peer in the mesh by changing the peer IP address.	—
Step 4	show ip msdp mesh-group [<i>mesh-group</i>] [vrf <i>vrf-name</i> <i>known-vrf-name</i> all] Example: switch# show ip msdp summary	(Optional) Displays information about the MDSP mesh group configuration.
Step 5	copy running-config startup-config Example: switch(config)# copy running-config startup-config	(Optional) Saves configuration changes.

Restarting the MSDP Process

You can restart the MSDP process and optionally flush all routes.

BEFORE YOU BEGIN

Ensure that you have installed the Enterprise Services license and enabled PIM and MSDP.

SUMMARY STEPS

1. restart msdp
2. config t
3. ip msdp flush-routes
4. (Optional) show running-configuration | include flush-routes
5. (Optional) copy running-config startup-config

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DETAILED STEPS

	Command	Purpose
Step 1	restart msdp Example: switch# restart msdp	Restarts the MSDP process.
Step 2	config t Example: switch# config t switch(config)#	Enters configuration mode.
Step 3	ip msdp flush-routes Example: switch(config)# ip msdp flush-routes	Removes routes when the MSDP process is restarted. By default, routes are not flushed.
Step 4	show running-configuration include flush-routes Example: switch(config)# show running-configuration include flush-routes	(Optional) Shows flush-routes configuration lines in the running configuration.
Step 5	copy running-config startup-config Example: switch(config)# copy running-config startup-config	(Optional) Saves configuration changes.

Verifying the MSDP Configuration

To display the MSDP configuration information, perform one of the following tasks:

Command	Purpose
show ip msdp count [<i>as-number</i>] [vrf <i>vrf-name</i> <i>known-vrf-name</i> all]	Displays MSDP (S, G) entry and group counts by the AS number.
show ip msdp mesh-group [<i>mesh-group</i>] [vrf <i>vrf-name</i> <i>known-vrf-name</i> all]	Displays the MSDP mesh group configuration.
show ip msdp peer [<i>peer-address</i>] [vrf <i>vrf-name</i> <i>known-vrf-name</i> all]	Displays MSDP information for the MSDP peer.
show ip msdp rpf [<i>rp-address</i>] [vrf <i>vrf-name</i> <i>known-vrf-name</i> all]	Displays next-hop AS on the BGP path to an RP address.
show ip msdp sources [vrf <i>vrf-name</i> <i>known-vrf-name</i> all]	Displays the MSDP-learned sources and violations of configured group limits.
show ip msdp summary [vrf <i>vrf-name</i> <i>known-vrf-name</i> all]	Displays a summary of the MSDP peer configuration.

For detailed information about the fields in the output from these commands, see the *Cisco Nexus 7000 Series NX-OS Multicast Routing Command Reference, Release 5.x*.

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Monitoring MSDP

You can display and clear MSDP statistics by using the features in this section.

This section has the following topics:

- [Displaying Statistics, page 1-14](#)
- [Clearing Statistics, page 1-14](#)

Displaying Statistics

You can display MSDP statistics using the commands listed in [Table 1-4](#).

Table 1-4 *MSDP Statistics Commands*

Command	Purpose
show ip msdp [<i>as-number</i>] internal event-history { errors messages }	Displays memory allocation statistics.
show ip msdp policy statistics sa-policy <i>peer-address</i> { in out } [vrf <i>vrf-name</i> <i>known-vrf-name</i> all]	Displays the MSDP policy statistics for the MSDP peer.
show ip msdp { sa-cache route } [<i>source-address</i>] [<i>group-address</i>] [vrf <i>vrf-name</i> <i>known-vrf-name</i> all] [<i>asn-number</i>] [peer <i>peer-address</i>]	Displays the MSDP SA route cache. If you specify the source address, all groups for that source are displayed. If you specify a group address, all sources for that group are displayed.

Clearing Statistics

You can clear the MSDP statistics using the commands listed in [Table 1-5](#).

Table 1-5 *MSDP Clear Statistics Commands*

Command	Description
clear ip msdp peer [<i>peer-address</i>] [vrf <i>vrf-name</i> <i>known-vrf-name</i>]	Clears the TCP connection to an MSDP peer.
clear ip msdp policy statistics sa-policy <i>peer-address</i> { in out } [vrf <i>vrf-name</i> <i>known-vrf-name</i>]	Clears statistics counters for MSDP peer SA policies.
clear ip msdp statistics [<i>peer-address</i>] [vrf <i>vrf-name</i> <i>known-vrf-name</i>]	Clears statistics for MSDP peers.
clear ip msdp { sa-cache route } [<i>group-address</i>] [vrf <i>vrf-name</i> <i>known-vrf-name</i> all]	Clears the group entries in the SA cache.

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Configuration Examples for MSDP

To configure MSDP peers, some of the optional parameters, and a mesh group, follow these steps for each MSDP peer:

Step 1 Configure the MSDP peering relationship with other routers.

```
switch# config t
switch(config)# ip msdp peer 192.168.1.10 connect-source ethernet 1/0 remote-as 8
```

Step 2 Configure the optional peer parameters.

```
switch# config t
switch(config)# ip msdp password 192.168.1.10 my_peer_password_AB
```

Step 3 Configure the optional global parameters.

```
switch# config t
switch(config)# ip msdp sa-interval 80
```

Step 4 Configure the peers in each mesh group.

```
switch# config t
switch(config)# ip msdp mesh-group 192.168.1.10 mesh_group_1
```

The following example shows how to configure a subset of the MSDP peering that is shown in [Figure 1-1](#).

- RP 3: 192.168.3.10 (AS 7)

```
config t
ip msdp peer 192.168.1.10 connect-source ethernet 1/1
ip msdp peer 192.168.2.10 connect-source ethernet 1/2
ip msdp peer 192.168.6.10 connect-source ethernet 1/3 remote-as 9
ip msdp password 192.168.6.10 my_peer_password_36
ip msdp sa-interval 80
ip msdp mesh-group 192.168.1.10 mesh_group_123
ip msdp mesh-group 192.168.2.10 mesh_group_123
ip msdp mesh-group 192.168.3.10 mesh_group_123
```

- RP 5: 192.168.5.10 (AS 8)

```
config t
ip msdp peer 192.168.4.10 connect-source ethernet 1/1
ip msdp peer 192.168.6.10 connect-source ethernet 1/2 remote-as 9
ip msdp password 192.168.6.10 my_peer_password_56
ip msdp sa-interval 80
```

- RP 6: 192.168.6.10 (AS 9)

```
config t
ip msdp peer 192.168.7.10 connect-source ethernet 1/1
ip msdp peer 192.168.3.10 connect-source ethernet 1/2 remote-as 7
ip msdp peer 192.168.5.10 connect-source ethernet 1/3 remote-as 8
ip msdp password 192.168.3.10 my_peer_password_36
ip msdp password 192.168.5.10 my_peer_password_56
ip msdp sa-interval 80
```

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Additional References

For additional information related to implementing MSDP, see the following sections:

- [Related Documents, page 1-16](#)
- [Standards, page 1-16](#)
- [Appendix 1, “IETF RFCs for IP Multicast”](#)
- [, page 1-16](#)

Related Documents

Related Topic	Document Title
VDCs	<i>Cisco Nexus 7000 Series NX-OS Virtual Device Context Configuration Guide, Release 4.2</i>
CLI commands	<i>Cisco Nexus 7000 Series NX-OS Multicast Routing Command Reference, Release 5.x</i>
Configuring Policy Based Routing and MBGP	<i>Cisco Nexus 7000 Series NX-OS Unicast Routing Configuration Guide, Release 5.x</i>

Standards

Standards	Title
RFC 4624	<i>Multicast Source Discovery Protocol (MSDP) MIB</i>