



Show Commands

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

show forwarding distribution ip igmp snooping

To display information about Layer 2 IGMP snooping multicast Forwarding Information Base (FIB) distribution, use the **show forwarding distribution ip igmp snooping** command.

```
show forwarding distribution ip igmp snooping [vlan vlan-id [group group-addr [source
source-addr]]]
```

Syntax Description	vlan <i>vlan-id</i>	(Optional) Specifies a VLAN. The range is from 1 to 3967 and 4048 to 4093.
	group <i>group-addr</i>	(Optional) Specifies a group address.
	source <i>source-addr</i>	(Optional) Specifies a source address.

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 about Layer 2 IGMP snooping multicast FIB distribution:

```
switch(config)# show forwarding distribution ip igmp snooping
```

Related Commands	Command	Description
	test forwarding distribution perf	Tests the forwarding distribution performance of the Forwarding Information Base (FIB).

show ip igmp snooping

To display information about IGMP snooping, use the **show ip igmp snooping** command.

```
show ip igmp snooping [vlan vlan-id]
```

Syntax Description	vlan <i>vlan-id</i> (Optional) Specifies a VLAN. The range is from 1 to 3967 and 4048 to 4093. The default is all VLANs.
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Command Default	Displays all VLANs.
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Command Modes	Any command mode
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Supported Use Roles	network-admin network-operator vdc-admin vdc-operator
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines	This command does not require a license.
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Examples This example shows how to display information about IGMP snooping for a VLAN:

```
switch(config)# show ip igmp snooping vlan 20
IGMP Snooping information for vlan 20
  IGMP snooping enabled
  Optimised Multicast Flood (OMF) disabled
  IGMP querier none
  Switch-querier disabled
  IGMPv3 Explicit tracking enabled
  IGMPv2 Fast leave disabled
  IGMPv1/v2 Report suppression enabled
  IGMPv3 Report suppression disabled
  Link Local Groups suppression enabled
  Router port detection using PIM Hellos, IGMP Queries
  Number of router-ports: 1
  Number of groups: 0
  Active ports:
    Eth1/21    Po100
switch(config)#
```

show ip igmp snooping event-history

To display information in the IGMP snooping event history buffers, use the **show ip igmp snooping event-history** command.

```
show ip igmp snooping event-history { vpc | igmp-snoop-internal | mfdm | mfdm-sum | vlan |
vlan-events }
```

Syntax Description	Option	Description
	vpc	Displays the event history buffer of type virtual port channel (vPC).
	igmp-snoop-internal	Displays the event history buffer of type IGMP snooping internal.
	mfdm	Displays the event history buffer of type multicast FIB distribution (MFDM).
	mfdm-sum	Displays the event history buffer of type MFDM sum.
	vlan	Displays the event history buffer of type VLAN.
	vlan-events	Displays the event history buffer of type VLAN events.

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 IGMP snooping VLAN event history buffer:

```
switch(config)# show ip igmp snooping event-history vlan

vlan Events for IGMP snoopprocess
2008 Apr 12 06:30:47.790031 igmp [4588]: : IGMPv3 proxy report: no routers found
2008 Apr 12 06:30:47.790012 igmp [4588]: : IGMPv3 proxy report: no records to se
nd
2008 Apr 12 06:30:47.789882 igmp [4588]: : IGMPv3 proxy report: no routers found
2008 Apr 12 06:30:47.789740 igmp [4588]: : IGMPv3 proxy report: no routers found
2008 Apr 12 06:30:47.789721 igmp [4588]: : IGMPv3 proxy report: no records to se
nd
```

```

2008 Apr 12 06:30:47.789584 igmp [4588]: : IGMPv3 proxy report: no routers found
2008 Apr 12 06:13:17.022028 igmp [4588]: : Received a STP Topology change notification, 1 vlans
2008 Apr 12 06:13:17.022023 igmp [4588]: : Received a STP Topology change notification
2008 Apr 12 06:13:15.022294 igmp [4588]: : Received a STP Topology change notification, 1 vlans
2008 Apr 12 06:13:15.022289 igmp [4588]: : Received a STP Topology change notification
2008 Apr 12 06:13:14.662417 igmp [4588]: : Received a STP Topology change notification, 1 vlans
2008 Apr 12 06:13:14.662412 igmp [4588]: : Received a STP Topology change notification
2008 Apr 12 06:13:12.642393 igmp [4588]: : Received a STP Topology change notification, 1 vlans
2008 Apr 12 06:13:12.642388 igmp [4588]: : Received a STP Topology change notification
2008 Apr 12 06:13:11.946051 igmp [4588]: : Received a STP Topology change notification, 1 vlans
2008 Apr 12 06:13:11.946046 igmp [4588]: : Received a STP Topology change notification
<--Output truncated-->
switch(config)#

```

Related Commands

Command	Description
ip igmp snooping event-history	Configures the size of the IGMP snooping event history buffers.
clear ip igmp snooping event-history	Clears information in the IGMP snooping event history buffers.

show ip igmp snooping explicit-tracking

To display information about explicit tracking for IGMP snooping, use the **show ip igmp snooping explicit-tracking** command.

```
show ip igmp snooping explicit-tracking [vlan vlan-id]
```

Syntax Description	vlan <i>vlan-id</i> (Optional) Specifies a VLAN. The range is from 1 to 3967 and 4048 to 4093.						
Command Default	None						
Command Modes	Any command mode						
Supported Use Roles	network-admin network-operator vdc-admin vdc-operator						
Command History	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>6.0(2)N1(1)</td> <td>This command was introduced.</td> </tr> <tr> <td>4.2(2)</td> <td>This command was changed to make the vlan argument optional.</td> </tr> </tbody> </table>	Release	Modification	6.0(2)N1(1)	This command was introduced.	4.2(2)	This command was changed to make the vlan argument optional.
Release	Modification						
6.0(2)N1(1)	This command was introduced.						
4.2(2)	This command was changed to make the vlan argument optional.						
Usage Guidelines	<p>When you use this command without the optional vlan argument, the system displays information for all VLANs.</p> <p>This command does not require a license.</p>						
Examples	<p>This example shows how to display information about explicit tracking for IGMP snooping for VLAN 33:</p> <pre>switch# show ip igmp snooping explicit-tracking vlan 33</pre>						
Related Commands	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>clear ip igmp snooping explicit-tracking vlan</td> <td>Clears the IGMP snooping explicit host tracking information for VLANs.</td> </tr> <tr> <td>ip igmp snooping explicit-tracking</td> <td>Enables tracking of IGMPv3 membership reports from individual hosts for each port on a VLAN.</td> </tr> </tbody> </table>	Command	Description	clear ip igmp snooping explicit-tracking vlan	Clears the IGMP snooping explicit host tracking information for VLANs.	ip igmp snooping explicit-tracking	Enables tracking of IGMPv3 membership reports from individual hosts for each port on a VLAN.
Command	Description						
clear ip igmp snooping explicit-tracking vlan	Clears the IGMP snooping explicit host tracking information for VLANs.						
ip igmp snooping explicit-tracking	Enables tracking of IGMPv3 membership reports from individual hosts for each port on a VLAN.						

show ip igmp snooping groups

To display information about the group membership for IGMP snooping, use the **show ip igmp snooping groups** command.

```
show ip igmp snooping groups [{source [group]} | {group [source]}] [vlan vlan-id] [detail]
```

Syntax Description	
<i>source</i>	(Optional) Source address for route.
<i>group</i>	(Optional) Group address for route.
vlan <i>vlan-id</i>	(Optional) Specifies a VLAN. The range is from 1 to 3967 and 4048 to 4093.
detail	(Optional) Displays detailed information for the group.

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.
	4.1(2)	Arguments <i>source</i> and <i>group</i> were added.

Usage Guidelines This command does not require a license.

Examples This example shows how to display information about the group membership for IGMP snooping:

```
switch(config)# show ip igmp snooping groups
Type: S - Static, D - Dynamic, R - Router port

Vlan  Group Address      Ver  Type  Port list
20    **/**                -    R     Vlan20
switch(config)#
```

show ip igmp snooping mrouter

To display the multicast routers detected by IGMP snooping, use the **show ip igmp snooping mrouter** command.

```
show ip igmp snooping mrouter [vlan vlan-id]
```

Syntax Description	vlan <i>vlan-id</i> (Optional) Specifies a VLAN. The range is from 1 to 3967 and 4048 to 4093.
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Command Default	None
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Command Modes	Any command mode
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SupportedUseRoles	network-admin network-operator vdc-admin vdc-operator
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.
	4.1(3)	Changed output to include vPC information.

Usage Guidelines	This command does not require a license.
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Examples	This example shows how to display the multicast routers detected by IGMP snooping:
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```
switch(config)# show ip igmp snooping mrouter
Type: S - Static, D - Dynamic, V - vPC Peer Link
Type: S - Static, D - Dynamic, V - vPC Peer Link, I - Internal
Vlan Router-port Type Uptime Expires
20 Vlan20 I 04:16:16 never (down)

switch(config)#
```


show ip igmp snooping querier

To display information about IGMP snooping queriers, use the **show ip igmp snooping querier** command.

show ip igmp snooping querier [**vlan** *vlan-id*]

Syntax Description	vlan <i>vlan-id</i> (Optional) Specifies a VLAN. The range is from 1 to 3967 and 4048 to 4093.				
Command Default	None				
Command Modes	Any command mode				
Supported Use Roles	network-admin network-operator vdc-admin vdc-operator				
Command History	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>6.0(2)N1(1)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	6.0(2)N1(1)	This command was introduced.
Release	Modification				
6.0(2)N1(1)	This command was introduced.				
Usage Guidelines	This command does not require a license.				
Examples	<p>This example shows how to display information about IGMP snooping queriers:</p> <pre>switch(config)# show ip igmp snooping querier</pre>				

show ip igmp snooping statistics

To display information about IGMP snooping statistics, use the **show ip igmp snooping statistics** command.

show ip igmp snooping statistics [vlan *vlan-id* | global]

Syntax Description	vlan <i>vlan-id</i>	(Optional) Specifies a VLAN. The range is from 1 to 3967 and 4048 to 4093.
	global	(Optional) Specifies the global 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)
	4.1(3)	Changed output to include vPC information.
	4.2(1)	Enhanced output for vPC information.
	4.2(2)	Changed command to make the vlan argument optional and to introduce the optional global argument.

Usage Guidelines When you use this command without any options, the system prints statistics for all VLANs. This command does not require a license.

Examples This example shows how to display information about IGMP snooping statistics for VLAN 1:

```
switch(config)# show ip igmp snooping statistics vlan 1
```