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 *vlan-id*	(Optional) Specifies a VLAN. The range is from 1 to 3967 and 4048 to 4093.
group *group-addr*	(Optional) Specifies a group address.
source *source-addr*	(Optional) Specifies a source address.

Command Default None

Command Modes Any command mode

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

Command History

Release	Modification
5.2(1)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** *vlan-id*	(Optional) Specifies a VLAN. The range is from 1 to 3967 and 4048 to 4093. The default is all VLANs.

Command Default   Displays all VLANs.

Command Modes   Any command mode

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

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

Usage Guidelines   This command does not require a license.

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		
	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 User Roles   network-admin
network-operator
vdc-admin
vdc-operator

Command History	**Release**	**Modification**
	5.2(1)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 notifi
cation, 1 vlans
2008 Apr 12 06:13:17.022023 igmp [4588]: : Received a STP Topology change notifi
cation
2008 Apr 12 06:13:15.022294 igmp [4588]: : Received a STP Topology change notifi
cation, 1 vlans
2008 Apr 12 06:13:15.022289 igmp [4588]: : Received a STP Topology change notifi
cation
2008 Apr 12 06:13:14.662417 igmp [4588]: : Received a STP Topology change notifi
cation, 1 vlans
2008 Apr 12 06:13:14.662412 igmp [4588]: : Received a STP Topology change notifi
cation
2008 Apr 12 06:13:12.642393 igmp [4588]: : Received a STP Topology change notifi
cation, 1 vlans
2008 Apr 12 06:13:12.642388 igmp [4588]: : Received a STP Topology change notifi
cation
2008 Apr 12 06:13:11.946051 igmp [4588]: : Received a STP Topology change notifi
cation, 1 vlans
2008 Apr 12 06:13:11.946046 igmp [4588]: : Received a STP Topology change notifi
cation
<--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** *vlan-id*	(Optional) Specifies a VLAN. The range is from 1 to 3967 and 4048 to 4093.

Command Default	None

Command Modes	Any command mode

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

Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
	4.2(2)	This command was changed to make the **vlan** argument optional.

Usage Guidelines	When you use this command without the optional **vlan** argument, the system displays information for all VLANs.
	This command does not require a license.

Examples	This example shows how to display information about explicit tracking for IGMP snooping for VLAN 33:

```
switch# show ip igmp snooping explicit-tracking vlan 33
```

Related Commands	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		
source	(Optional) Source address for route.	
group	(Optional) Group address for route.	
vlan *vlan-id*	(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
5.2(1)N1(1)	This command was introduced.
4.1(2)	Arguments *source* and *group* 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
TType: 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** *vlan-id*	(Optional) Specifies a VLAN. The range is from 1 to 3967 and 4048 to 4093.

Command Default   None

Command Modes   Any command mode

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

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.
4.1(3)	Changed output to include vPC information.

Usage Guidelines   This command does not require a license.

Examples   This example shows how to display the multicast routers detected by IGMP snooping:

```
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 *vlan-id*	(Optional) Specifies a VLAN. The range is from 1 to 3967 and 4048 to 4093.

Command Default   None

Command Modes   Any command mode

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

Command History

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

Usage Guidelines   This command does not require a license.

Examples   This example shows how to display information about IGMP snooping queriers:

```
switch(config)# show ip igmp snooping querier
```

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 *vlan-id*	(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 User Roles   network-admin
network-operator
vdc-admin
vdc-operator

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