Show Commands

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

show ip igmp event-history

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

show ip igmp event-history {**clis** | **debugs** | **errors** | **events** | **ha** | **igmp-internal** | **msgs** | **mtrace** | **policy** | **statistics** | **vrf**}

Syntax Description

clis	Displays events of type CLI.
debugs	Displays events of type debug.
errors	Displays events of type error.
events	Displays events of type event.
ha	Displays events of type HA.
igmp-internal	Displays events of type IGMP internal.
msgs	Displays events of type msg.
mtrace	Displays events of type mtrace.
policy	Displays events of type policy.
statistics	Displays events of type statistics.
vrf	Displays events of type VRF.

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 does not require a license.

Examples   This example shows how to display information in the IGMP HA event history buffer:

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

 ha events for IGMP process
2008 Apr 12 04:01:32.339950 igmp [4588]: : Router-port PSS entry for vlan 20 upd
ated [count 0]
2008 Apr 12 04:00:05.118545 igmp [4588]: : Handling existing vlans notification
2008 Apr 12 04:00:04.824730 igmp [4588]: : PSS entry for global updatedswitch(config)#
```

Related Commands	Command	Description
	clear ip igmp event-history	Clears the contents of the IGMP event history buffers.
	ip igmp event-history	Configures the size of IGMP event history buffers.

show ip igmp groups

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

show ip igmp groups [{*source* [*group*]} | {*group* [*source*]}] [**ethernet** *slot*/*port* | **port-channel** *channel-number*[**.***sub_if_number*] | **vlan** *vlan-id*] [**vrf** {*vrf-name* | **all**}]

Syntax Description

source	Source IP address.
group	(Optional) Multicast IP address of the single group to display.
ethernet *slot*/*port*	(Optional) Specifies the Ethernet interface and the slot number and port number. The slot number is from 1 to 255, and the port number is from 1 to 128.
port-channel *number*	(Optional) Specifies the EtherChannel interface and EtherChannel number. The range is from 1 to 4096.
sub_if_number	(Optional) Subinterface number. The range is from 1 to 4093.
vlan *vlan-id*	(Optional) Specifies the VLAN. The range is from 1 to 4094.
vrf	(Optional) Applies to a virtual routing and forwarding (VRF) instance.
vrf-name	VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive.
all	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 igmp route** command is an alternative form of this command.

This command does not require a license.

Examples

This example shows how to display information about the IGMP-attached group membership:

```
switch(config)# show ip igmp groups
IGMP Connected Group Membership for VRF "default" - 0 total entries
Type: S - Static, D - Dynamic, L - Local, T - SSM Translated
Group Address      Type Interface          Uptime     Expires    Last Reporter
switch(config)#
```

Related Commands

Command	Description
show ip igmp route	Displays information about the IGMP-attached group membership.

show ip igmp interface

To display information about IGMP on interfaces, use the **show ip igmp interface** command.

> **show ip igmp interface** {**ethernet** *slot/port* | **port-channel** *channel-number*[**.***sub_if_number*] | **vlan**
> *vlan-id*}

> **show ip igmp interface** [**brief**] [**vrf** {*vrf-name* | **all**}]

Syntax Description

ethernet *slot/port*	Specifies the Ethernet interface and the slot number and port number. The slot number is from 1 to 255, and the port number is from 1 to 128.
port-channel *number*	Specifies the EtherChannel interface and EtherChannel number. The range is from 1 to 4096.
sub_if_number	Subinterface number. The range is from 1 to 4093.
vlan *vlan-id*	Specifies the VLAN. The range is from 1 to 4094.
brief	(Optional) Displays one line status per interface.
vrf	(Optional) Applies to a virtual routing and forwarding (VRF) instance.
vrf-name	VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive.
all	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   This command does not require a license.

Examples   This example shows how to display information about IGMP on an interface (if IGMP is not in vPC mode, the vPC information is not displayed):

```
switch(config)# show ip igmp interface vlan 5
IGMP Interfaces for VRF "default"
Vlan20, Interface status: protocol-down/link-down/admin-down
  IP address: 20.1.1.3, IP subnet: 20.1.1.0/24
  Active querier: 0.0.0.0
  Membership count: 0
  Old Membership count 0
  Route-queue depth: 0
  IGMP version: 2, host version: 0
  IGMP query interval: 125 secs, configured value: 125 secs
  IGMP max response time: 10 secs, configured value: 10 secs
```

```
        IGMP startup query interval: 31 secs, configured value: 31 secs
        IGMP startup query count: 2
        IGMP last member mrt: 1 secs
        IGMP last member query count: 2
        IGMP group timeout: 260 secs, configured value: 260 secs
        IGMP querier timeout: 255 secs, configured value: 255 secs
        IGMP unsolicited report interval: 10 secs
        IGMP robustness variable: 2, configured value: 2
        IGMP reporting for link-local groups: disabled
        IGMP interface enable refcount: 1
        IGMP interface immediate leave: disabled
        IGMP Report Policy: None
        IGMP State Limit: None
        IGMP interface statistics:
          General (sent/received):
            v1-reports: 0/0
            v2-queries: 0/0, v2-reports: 0/0, v2-leaves: 0/0
            v3-queries: 0/0, v3-reports: 0/0
          Errors:
            General Queries received with invalid destination address; v2: 0, v3: 0
            Checksum errors: 0, Packet length errors: 0
            Packets with Local IP as source: 0, Source subnet check failures: 0
            Query from non-querier:0
            Report version mismatch: 0, Query version mismatch: 0
            Unknown IGMP message type: 0
            Invalid v1 reports: 0, Invalid v2 reports: 0, Invalid v3 reports: 0
          Packets dropped due to router-alert check: 0
        Interface PIM DR: No
        Interface vPC CFS statistics:
          DR queries sent: 0
          DR queries rcvd: 0
          DR queries fail: 0
          DR updates sent: 0
          DR updates rcvd: 0
          DR updates fail: 0
switch(config)#
```

This example shows how to display information about IGMP on an interface in a brief format:

```
switch(config)# show ip igmp interface brief
IGMP Interfaces for VRF "default", count: 1
Interface         IP Address      IGMP Querier    Membership  Version
                                                  Count
Vlan20            20.1.1.3        0.0.0.0         0           v2
switch(config)#
```

show ip igmp local-groups

To display information about IGMP local groups, use the **show ip igmp local-groups** command.

show ip igmp local-groups [**ethernet** *slot*/*port* | **port-channel** *channel-number*[.*sub_if_number*] | **vlan** *vlan-id*] [**vrf** {*vrf-name* | **all**}]

Syntax Description		
ethernet *slot*/*port*	Specifies the Ethernet interface and the slot number and port number. The slot number is from 1 to 255, and the port number is from 1 to 128.	
port-channel *number*	Specifies the EtherChannel interface and EtherChannel number. The range is from 1 to 4096.	
sub_if_number	Subinterface number. The range is from 1 to 4093.	
vlan *vlan-id*	Specifies the VLAN. The range is from 1 to 4094.	
vrf	(Optional) Applies to a virtual routing and forwarding (VRF) instance.	
vrf-name	VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive.	
all	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 This command does not require a license.

Examples This example shows how to display information about IGMP local groups:

```
switch(config)# show ip igmp local-groups
```

show ip igmp route

To display information about the IGMP-attached group membership, use the **show ip igmp route** command.

show ip igmp route [{*source* [*group*]} | {*group* [*source*]}] [**ethernet** *slot/port* | **port-channel** *channel-number*[**.***sub_if_number*] | **vlan** *vlan-id*] [**vrf** {*vrf-name* | **all**}]

Syntax Description

source	Source IP address.
group	(Optional) Multicast IP address of single group to display.
ethernet *slot/port*	Specifies the Ethernet interface and the slot number and port number. The slot number is from 1 to 255, and the port number is from 1 to 128.
port-channel *number*	Specifies the EtherChannel interface and EtherChannel number. The range is from 1 to 4096.
sub_if_number	Subinterface number. The range is from 1 to 4093.
vlan *vlan-id*	Specifies the VLAN. The range is from 1 to 4094.
vrf	(Optional) Applies to a virtual routing and forwarding (VRF) instance.
vrf-name	VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive.
all	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 igmp groups** command is an alternative form of this command.

This command does not require a license.

Examples   This example shows how to display information about the IGMP-attached group membership:

```
switch# show ip igmp route
IGMP Connected Group Membership for VRF "default" - 1 total entries
Type: S - Static, D - Dynamic, L - Local, T - SSM Translated
Group Address    Type Interface        Uptime    Expires   Last Reporter
230.0.0.0        S    Ethernet1/5      00:31:47  never     0.0.0.0
switch#
```

Related Commands	Command	Description
	show ip igmp groups	Displays information about the IGMP-attached group membership.

show running-config igmp

To display information about the running-system configuration for IGMP, use the **show running-config igmp** command.

> **show running-config igmp** [**all**]

Syntax Description	**all**	(Optional) Displays configured and default information.

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 the IGMP running-system configuration:

```
switch(config)# show running-config igmp

!Command: show running-config igmp
!Time: Fri May  2 08:05:08 2008

version 5.0(3)N1(1)

interface Ethernet1/5
  ip igmp static-oif 230.0.0.0

switch(config)#
```

show startup-config igmp

To display information about the startup-system configuration for IGMP, use the **show startup-config igmp** command.

> **show startup-config igmp** [**all**]

Syntax Description	**all**	(Optional) Displays configured and default information.

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 the IGMP startup-system configuration:

```
switch(config)# show startup-config igmp
```