



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

Supported Use 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 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/[QSFP-module]/port |
port-channel channel-number[.sub_if_number] | vethernet veth-id | vlan vlan-id] [vrf
{vrf-name | all}]
```

Syntax Description	
<i>source</i>	Source IP address.
<i>group</i>	(Optional) Multicast IP address of the single group to display.
ethernet <i>slot</i> /[<i>QSFP-module</i>]/ <i>port</i>	(Optional) Specifies the Ethernet interface and the slot number and port number. The slot number is from 1 to 255. The <i>QSFP-module</i> number is from 1 to 4. The port number is from 1 to 128. Note The <i>QSFP-module</i> number applies only to the QSFP+ Generic Expansion Module (GEM).
port-channel <i>number</i>	(Optional) Specifies the EtherChannel interface and EtherChannel number. The range is from 1 to 4096.
<i>sub_if_number</i>	(Optional) Subinterface number. The range is from 1 to 4093.
vethernet <i>veth-id</i>	(Optional) Specifies the virtual Ethernet interface. The interface number can be from 1 to 1,048,575.
vlan <i>vlan-id</i>	(Optional) Specifies the VLAN. The range is from 1 to 4094.
vrf <i>vrf-name</i>	(Optional) Applies to a virtual routing and forwarding (VRF) instance. 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

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

Command History	Release	Modification
	6.0(2)N1(2)	Support for the QSFP+ GEM was added.
	5.2(1)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[/QSFP-module/]port | port-channel
channel-number[.sub_if_number] | vethernet veth-id | vlan vlan-id }

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

Syntax Description		
ethernet <i>slot[/QSFP-module/]port</i>	Specifies the Ethernet interface and the slot number and port number. The slot number is from 1 to 255. The <i>QSFP-module</i> number is from 1 to 4. The port number is from 1 to 128.	Note The <i>QSFP-module</i> number applies only to the QSFP+ Generic Expansion Module (GEM).
port-channel <i>number</i>	Specifies the EtherChannel interface and EtherChannel number. The range is from 1 to 4096.	
<i>sub_if_number</i>	Subinterface number. The range is from 1 to 4093.	
vethernet <i>veth-id</i>	Specifies the virtual Ethernet interface. The range is from 1 to 1,048,575.	
vlan <i>vlan-id</i>	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.	
<i>vrf-name</i>	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

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

Command History	Release	Modification
	6.0(2)N1(2)	Support for the QSFP+ GEM was added.
	5.2(1)N1(1)	This command was introduced.
	4.1(3)	Changed output to include vPC information when IGMP is in vPC mode.

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
                  20.1.1.3        0.0.0.0         Count      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[/QSFP-module/]port | port-channel
channel-number[.sub_if_number] | vethernet veth-id | vlan vlan-id] [vrf {vrf-name | all}]
```

Syntax Description		
ethernet <i>slot</i> [/ <i>QSFP-module</i> /] <i>port</i>	Specifies the Ethernet interface and the slot number and port number. The slot number is from 1 to 255. The <i>QSFP-module</i> number is from 1 to 4. The port number is from 1 to 128.	Note The <i>QSFP-module</i> number applies only to the QSFP+ Generic Expansion Module (GEM).
port-channel <i>number</i>	Specifies the EtherChannel interface and EtherChannel number. The range is from 1 to 4096.	
<i>sub_if_number</i>	Subinterface number. The range is from 1 to 4093.	
vethernet <i>veth-id</i>	Specifies the virtual Ethernet interface. The range is from 1 to 1,048,575.	
vlan <i>vlan-id</i>	Specifies the VLAN. The range is from 1 to 4094.	
vrf	(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.	
all	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(2)	Support for the QSFP+ GEM was added.
	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 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[/QSFP-module]/port |
port-channel channel-number[.sub_if_number] | vethernet veth-id | vlan vlan-id] [vrf
{vrf-name | all}]
```

Syntax Description	
<i>source</i>	Source IP address.
<i>group</i>	(Optional) Multicast IP address of single group to display.
ethernet <i>slot</i> [/ <i>QSFP-module</i>]/ <i>port</i>	Specifies the Ethernet interface and the slot number and port number. The slot number is from 1 to 255. The <i>QSFP-module</i> number is from 1 to 4. The port number is from 1 to 128. Note The <i>QSFP-module</i> number applies only to the QSFP+ Generic Expansion Module (GEM).
port-channel <i>number</i>	Specifies the EtherChannel interface and EtherChannel number. The range is from 1 to 4096.
<i>sub_if_number</i>	Subinterface number. The range is from 1 to 4093.
vethernet <i>veth-id</i>	Specifies the virtual Ethernet interface. The range is from 1 to 1,048,575.
vlan <i>vlan-id</i>	Specifies the VLAN. The range is from 1 to 4094.
vrf	(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.
all	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(2)	Support for the QSFP+ GEM was added.
	5.2(1)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.
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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
	5.2(1)N1(1)	This command was introduced.

Usage Guidelines	This command requires the LAN Base Services license.
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Examples	This example shows how to display information about the IGMP running-system configuration:
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```
switch(config)# show running-config igmp

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

version 5.2(1)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.
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Command Default	None
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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
	5.2(1)N1(1)	This command was introduced.

Usage Guidelines	This command requires the LAN Base Services license.
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Examples	This example shows how to display information about the IGMP startup-system configuration: <pre>switch(config)# show startup-config igmp</pre>
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■ show startup-config igmp