

## IGMP-SNOOPING Configuration Commands

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## Chapter 1 IGMP-SNOOPING Configuration Commands

IGMP-SNOOPING configuration commands include:

- ip igmp-snooping
- ip igmp-snooping static
- ip igmp-snooping immediate-leave
- ip igmp-snooping mrouter
- ip igmp-snooping dlf-drop
- ip igmp-snooping policy
- ip igmp-snooping router age
- ip igmp-snooping response time
- ip igmp-snooping querier
- ip igmp-snooping querier timer
- ip igmp-snooping forward-l3-to-mrouter
- ip igmp-snooping sensitive
- ip igmp-snooping v3-leave-check
- ip igmp-snooping forward-wrongiif-within-vlan
- ip igmp-snooping limit
- show ip igmp-snooping
- show ip igmp-snooping vlan
- show ip igmp-snooping timer
- show ip igmp-snooping group
- show ip igmp-snooping statistics
- debug ip igmp-snooping packet
- debug ip igmp-snooping timer
- debug ip igmp-snooping event
- debug ip igmp-snooping error
- debug ip igmp-snooping

### 1.1.1 igmp-snooping

#### Syntax

To enable the IGMP-snooping of VLAN, use the `ip igmp-snooping` command. Use the `no` form of this command to restore the default.

**`ip igmp-snooping [ vlan vlan_id ]`**

**`no ip igmp-snooping [ vlan vlan_id ]`**

#### Parameter

Parameter	Description
<i>vlan id</i>	VLAN identity.Value is from 1 to 4094.

#### Default

Disabled

#### Usage Guidelines

If not specified the `vlan` parameter, this command enable or disable all vlans in the system (IGMP-snooping currently can be ran on 16 vlans at most at the same time.)

#### Example

The following command enables IGMP snooping of vlan 1:

```
switch(config)# ip igmp-snooping vlan 1
switch(config)#
```

### 1.1.2 igmp-snooping static

#### Syntax

**`ip igmp-snooping vlan vlan_id static A.B.C.D interface intf`**

**`no ip igmp-snooping vlan vlan_id static A.B.C.D interface intf`**

#### Parameter

Parameter	Description
<i>vlan id</i>	VLAN identity.Value is from 1 to 4094.
<i>A.B.C.D</i>	Specifies the IP address of multicast

<i>inft</i>	Specifies the interface
-------------	-------------------------

## Default

None

## Usage Guidelines

Use this command to configure the static multicast address of vlan. Use the no form of this command to delete the address.

## Example

The following command adds the static multicast address at 234.5.6.7 to the fast ethernet interface G0/5 of vlan 2:

```
switch_config# ip igmp-snooping vlan 2 static 234.5.6.7 interface gigaEthernet0/5
switch_config#
```

### Note:

224.0.0.0-224.0.0.255, as the multicast address which cannot be routed, cannot be registered to each interface.

## 1.1.3 igmp-snooping immediate-leave

## Syntax

In global configuration mode:

To configure the immediate-leave characteristic of vlan, use the **ip igmp-snooping vlan** command. Use the no form of this command to restore the default.

**ip igmp-snooping vlan *vlan\_id* immediate-leave**

**no ip igmp-snooping vlan *vlan\_id* immediate-leave**

## Parameter

Parameter	Description
<i>vlan id</i>	VLAN identity. Value is from 1 to 4094.

## Default

Disabled

## Syntax

In interface configuration mode:

To configure the immediate-leave characteristic of vlan, use the **ip igmp-snooping immediate-leave** command. Use the no form of this command to restore the default.

**ip igmp-snooping immediate-leave**

**no ip igmp-snooping immediate-leave**

### Parameter

None

### Default

Disabled

### Usage Guidelines

Configuring the immediate-leave feature of a VLAN or port allows the switch to delete the port from the port list of the corresponding multicast group immediately after receiving the leave message on the port, instead of turning on the timer and waiting for other hosts to join this multicast. If other hosts under the same port also belong to this group but do not want to leave, the multicast communication of these users may be affected, and the immediate-leave function should not be enabled at this time.

The immediate-leave configuration of the port and the immediate-leave configuration of the VLAN work simultaneously.

### Example

The following command enables immediate-leave characteristic of vlan 1:

```
switch_config# ip igmp-snooping vlan 1 immediate-leave
switch_config#
```

The following command enables immediate-leave characteristic of interface g0/8:

```
switch_config_g0/8#ip igmp-snooping immediate-leave
```

## 1.1.4 igmp-snooping mrouter

### Syntax

**ip igmp-snooping vlan *vlan\_id* mrouter interface *intf***

**no ip igmp-snooping vlan *vlan\_id* mrouter interface *intf***

### Parameter

Parameter	Description
-----------	-------------

<i>vlan id</i>	VLAN identifier. The value ranges from 1 to 4094.
<i>intf</i>	Interface

### Default

None

### Usage Guidelines

The command is used to configure the static route port. Use the no form of this command to delete the route port.

Only static routing ports can be configured for existing VLANs.

### Example

The following example shows how to add the gigabit Ethernet G0/5 of VLAN 2 as its static route port.

```
switch_config# ip igmp-snooping vlan 2 mrouter interface GigaEthernet0/5
switch_config#
```

## 1.1.5 igmp-snooping policy

### Syntax

**ip igmp-snooping policy *word***

**no ip igmp-snooping policy**

### Parameter

Parameter	Description
<i>Word</i>	IP ACL name

### Default

None

### Usage Guidelines

The command is used to configure the IP ACL list when igmp-snooping adds the multicast forwarding table. To return to the default setting, use the no form of this command. Ipacl must already exist when configuring this command.

## Example

The following example shows how to detect the IP ACI named 123 when adding the multicast forwarding table.

```
switch_config# ip igmp-snooping policy 123
switch_config#
```

### 1.1.6 igmp-snooping dlf-drop

## Syntax

**ip igmp-snooping dlf-drop**

**no ip igmp-snooping dlf-drop**

## Default

Parameter	Description
	Filter unregistered address multicast packets.

## Usage Guidelines

This command is used to set the multicast packets whose destination multicast addresses are not registered to the filtration mode. The negative form of this command is used to resume the default settings.

## Example

The following example shows how to drop the multicast packets with unregistered destination addresses in all VLANs.

```
switch_config# ip igmp-snooping dlf-drop
switch_config#
```

### 1.1.7 igmp-snooping router age

## Syntax

**ip igmp-snooping timer router-age *timer\_value***

**no ip igmp-snooping timer router-age**

## Parameter

Parameter	Description
-----------	-------------



<i>time value</i>	Query timer time. Value is from 10 to 2147483647.
-------------------	---------------------------------------------------

### Default

260 seconds

### Usage Guidelines

Use this command to configure query timer time. Use the no form of this command to restore the default value.

### Example

The following example configures router-age to 300 seconds

```
switch(config)# ip igmp-snooping timer router-age 300
switch(config)#
```

## 1.1.8 igmp-snooping response time

### Syntax

To configure the maximum response time of IGMP-snooping, use IGMP-snooping command. Use the no form of this command to restore the default value.

**ip igmp-snooping timer response-time** *timer\_value*

**no ip igmp-snooping timer response-time**

### Parameter

Parameter	Description
<i>time value</i>	Query timer time. The value ranges from 1 to 2147483647.

### Default

15 seconds

### Usage Guidelines

None

### Example

The following example configures response-time to 20 seconds:

```
switch(config)# ip igmp-snooping timer response-time 20
```

```
switch(config)#
```

### 1.1.9 igmp-snooping querier

#### Syntax

To activate IGMP-snooping querier mechanism or configure the source ip address of the spontaneous query packets. Use the no form of this command to restore the default value.

**ip igmp-snooping querier [address <ip\_addr>]**

**no ip igmp-snooping querier [address <ip\_addr>]**

#### Parameter

Parameter	Description
<i>ip_addr</i>	The common unicast IP address

#### Default

Disabled, the default source IP address is 10.0.0.200.

#### Usage Guidelines

None

#### Example

The following command activates IGMP querier:

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

### 1.1.10 igmp-snooping querier querier-timer

#### Syntax

**ip igmp-snooping querier querier-timer *time\_value***

**no ip igmp-snooping querier querier-timer**

To configure the forward interval of forwarding query packets by the local querier, run the first one of the above commands. To return to the default setting, use the no form of this command.

**Parameter**

Parameter	Description
<i>time_value</i>	The query interval of the local querier.

**Default**

The default interval is 200s when enable the Querier function.

**Usage Guidelines**

None

**Example**

The following command shows how to configure the query period of the local querier as 140s.

```
switch_config# ip igmp-snooping querier querier-timer 140
switch_config#
```

**1.1.11 igmp-snooping forward-l3-to-mrouter****Syntax**

**ip igmp-snooping forward-l3-to-mrouter**

**no ip igmp-snooping forward-l3-to-mrouter**

To send the data packets to the multicast routing port, run **ip igmp-snooping forward-l3-to-mrouter**. To return to the default setting, use the no form of this command.

**Parameter**

None

**Default**

If the forward-l3-to-mrouter command is not enabled, the data packets will not be sent to the related multicast routing port.

## Usage Guidelines

This command is mainly to send the data packets to the IGMP JOIN port and meanwhile to the multicast routing port. Especially in case of L3 multicast cascading, the upstream L3 switches cannot receive the IGMP JOIN packets from a relative group and hence cannot learn the information about the relative group, and then the data packets will be sent to all physical ports in the L3 egress VLAN. After this command is run, the data packets will only be sent to the multicast routing port, which is registered on PIM-SM.

## Example

The following example shows how to activate IGMP forward-I3-to-mrouter and make the upstream multicast data packets be sent to the multicast routing port:

```
switch_config# ip igmp-snooping forward-I3-to-mrouter
switch_config#
```

### 1.1.12 igmp-snooping sensitive

## Syntax

**ip igmp-snooping sensitive [value *int*<3-30>]**

**no ip igmp-snooping sensitive [value]**

To activate IGMP-snooping sensitive mechanism or set the value of sensitive, run the first one of the above commands. To return to the default setting, use the no form of this command.

## Parameter

Parameter	Description
<i>int</i>	3-30, unit: second

## Default

The sensitive function is disabled. The default value is 5s.

## Usage Guidelines

This command is mainly used to modify the router-age of the mrouter port in active state and deliver the new query packets rapidly when a port in trunk mode is shut down.

## Example

The following example shows how to activate IGMP sensitive and set the route-age of mrouter to be a converged one.

```
switch_config# ip igmp-snooping sensitive
switch_config# ip igmp-snooping sensitive value 10
```

### 1.1.13 igmp-snooping v3-leave-check

## Syntax

**ip igmp-snooping v3-leave-check**

**no ip igmp-snooping v3-leave-check**

To send the special query packets after the v3-leave packet is received, run `ip igmp-snooping v3-leave-check`; To return to the default setting, use the `no` form of this command.

## Default

v3-leave-check is disabled and the special query packet will not be sent after v3-leave packet is received.

## Parameter

None

## Usage Guidelines

None

## Example

The following example shows how to activate IGMP v3-leave-check and send the special query packet after the v3-leave packet is received.

```
switch_config# ip igmp-snooping v3-leave-check
switch_config#
```

### 1.1.14 igmp-snooping forward-wrongiif-within-vlan

## Syntax

**ip igmp-snooping forward-wrongiif-within-vlan**

**no ip igmp-snooping forward-wrongiif-within-vlan**

To send the multicast data packets, received from the wrongiif port, to the relative physical ports in the local vlan, run `ip igmp-snooping forward-wrongiif-within-vlan`; To return to the default setting, use the `no` form of this command.

**Parameter**

None

**Default**

This command is enabled by default and the multicast packets from the wrongiif port will be sent to the relative physical ports.

**Usage Guidelines**

This command takes its importance only when the L3 multicast is enabled. After this command is enabled, the multicast packets, entering from the wrongiif port, will be sent to the physical ports that are added into the group of vlan; otherwise, the multicast packets will be dropped.

**Example**

The following example shows how to activate IGMP forward-wrongiif-within-vlan, and how to send the multicast packets from the wrongiif port to the relative physical ports in the local VLAN:

```
switch_config# ip igmp-snooping forward-wrongiif-within-vlan
switch_config#
```

**1.1.15 igmp-snooping filter****Syntax**

**ip igmp-snooping filter** *word*

**no ip igmp-snooping filter**

**Parameter**

Parameter	Description
word	IP ACL name

**Default**

None

**Usage Guidelines**

If the IPACL function of IGMP-snooping port is enabled, the IPACL will be used under the port to specify the packets of a multicast IP address to be processed or ignored.

**Command Mode**

Interface configuration mode

**Example**

The following example shows how to configure IP ACL deny-pc on port g0/2:

```
switch_config#ip access-list standard deny-pc
switch_config_std#deny 239.255.255.250 255.255.255.255
switch_config_std#permit any
switch_config_std#exit
switch_config#interface g0/2
switch_config_g0/2#ip igmp-snooping filter deny-pc
```

**1.1.16 igmp-snooping vlan filter****Syntax**

**ip igmp-snooping vlan** *vlanid-list* **filter** *ipaddr-list*

**no ip igmp-snooping vlan** *vlanid-list* **filter** *ipaddr-list*

**Parameter**

Parameter	Description
Vlanid-list	VLAN ID list, connect with "," and "-". Range from 1 to 4094.
ipaddr-list	Multicast IP address list, connect with "," and "-" ("," and "-" must be followed by at least 1 space).

**Default**

None

## Usage Guidelines

If multicast filtering in the IGMP-snooping VLAN is enabled, only the multicast group report request in the filtering list will be accepted and added to the group in the VLAN, otherwise it will be discarded and no group will be added.

## Command Mode

Global configuration mode

## Example

The following example shows how to configure filter list on VLAN 2:

```
switch_config#ip igmp-snooping vlan 2 filter 230.1.1.1 - 230.1.1.100
```

### 1.1.17 igmp-snooping limit

## Syntax

**ip igmp-snooping limit** *value*

**no ip igmp-snooping limit**

## Parameter

Parameter	Description
<i>value</i>	1-2048

## Default

2048

## Usage Guidelines

The command configures the max multicast IP address number in the port of IGMP-snooping. The command will estimate whether the applied groups have reached the configuration number when IGMP-snooping generating the forward table. Otherwise, the table of the port is no longer generated.

## Command Mode

Interface configuration mode



## Example

The following example shows how to set the max number of the joining group as 1000.

```
switch_config_G0/1# ip igmp-snooping limit 1000
switch_config_G0/1#
```

### 1.1.18 igmp-snooping report-suppression

#### Syntax

**ip igmp-snooping report-suppression [max-number *value*]**

**no ip igmp-snooping report-suppression**

#### Parameter

Parameter	Description
value	This parameter specifies the maximum number of reports that can be forwarded to the same multicast group in a query period within the same VLAN after report-suppression is enabled. The value ranges from 1 to 5. If this command is configured without keyword max-number, the maximum number of report forwarding is 1.

#### Default

Disabled.

#### Usage Guidelines

If the report-suppression function of IGMP-snooping is configured, in the same VLAN, for the report request of a multicast group, whether the client enables the function in the initial state or the response to the query, the switch forwards only a limited number to the mrouter port. The forwarding number is determined by the Parameter after max-number, and the range is from 1 to 5. If the max-number keyword is omitted, the number of forwardings is 1 by default.

This function is to reduce the processing cost of the local switch and the upstream switch and save the bandwidth for forwarding report packets when the IGMP Snooping function is normal.

**Command Mode**

Global configuration mode

**Example**

The following example shows how to enable report-suppression function of IGMP-snooping.

```
switch_config# ip igmp-snooping report-suppression
switch_config#
```

**1.1.19 igmp-snooping proxy-leave****Syntax**

```
ip igmp-snooping proxy-leave
no ip igmp-snooping proxy-leave
```

**Parameter**

None.

**Default**

Disabled.

**Usage Guidelines**

If the IGMP-snooping proxy-leave function is configured, in the same VLAN, the switch sends the leave message of the multicast group to the upstream device only after all members of a multicast group have truly left the group.

This function is to reduce the processing cost of the local switch and the upstream switch and save the bandwidth for forwarding report packets when the IGMP Snooping function is normal.

**Command Mode**

Global configuration mode

**Example**

The following example shows how to enable the proxy-leave function of IGMP-snooping.

```
switch_config# ip igmp-snooping proxy-leave
```

```
switch_config#
```

### 1.1.20 show ip igmp-snooping

#### Syntax

```
show ip igmp-snooping
```

#### Parameter

None

#### Default

None

#### Usage Guidelines

Use this command to show configuration information of IGMP-snooping.

#### Example

The following example shows the vlan information of the running ipmp-snooping:

```
switch_config# show ip igmp-snooping
```

Global IGMP snooping configuration:

```
-----
Globally enable      : Enabled
VLAN nodes           : 1,50,100,200,400,500
Dlf-frames filtering : Disabled
Sensitive            : Disabled
Querier              : Enabled
Querier address      : 10.0.0.200
Querier interval     : 140 s
Router age           : 260 s
Response time        : 15 s
```

vlan_id	Immediate-leave	Ports	Router Ports
1	Disabled	5-10	SWITCH(querier);
50	Disabled	1-4	SWITCH(querier);
100	Disabled	NULL	SWITCH(querier);G0/1(static);
200	Disabled	NULL	SWITCH(querier);
400	Disabled	NULL	SWITCH(querier);

500 Disabled NULL SWITCH(querier);  
switch\_config#

### 1.1.21 show ip igmp-snooping timer

#### Syntax

**show ip igmp-snooping timer**

#### Parameter

None

#### Default

None

#### Usage Guidelines

Use this command to show timer information of IGMP.

#### Example

The following example shows timer information of igmp-snooping:

```
switch_config# show ip igmp-snooping timer
vlan 1 mrouter on port 3 : 251
switch_config#
```

### 1.1.22 show ip igmp-snooping groups

#### Syntax

**show ip igmp-snooping groups**

#### Parameter

None

#### Default

None

## Usage Guidelines

Use this command to display multicast group information of IGMP-snooping.

## Example

The following example shows the multicast group information of igmp-snooping:

```
switch_config# show ip igmp-snooping group
The total number of groups      2
```

Vlan Group	Type	Port(s)
1 226.1.1.1	IGMP	G0/1 G0/3
1 225.1.1.16	IGMP	G0/1 G0/3

```
switch_config#
```

### 1.1.23 show ip igmp-snooping group interface

## Syntax

**show ip igmp-snooping group interface**

## Parameter

None

## Default

None

## Usage Guidelines

Displays the IGMP-snooping multicast group information added on the port.

## Example

The following example shows how to display the igmp-snooping multicast group information on port g0/4.

```
Switch#show ip igmp-snooping group interface g0/4
```

```
Number of joined groups: 1
```

Vlan Group	Mode	Source Num
2 230.1.1.1	Exclude	0

Switch#

## 1.1.24 show ip igmp-snooping statistics

**Syntax****show ip igmp-snooping statistics [message|packet|hardware|vlan *vlanid*]****Parameter**

Parameter	Description
<i>vlanid</i>	When the command is followed by the optional keyword VLAN, it specifies the vlan ID.

**Default**

None

**Usage Guidelines**

Display IGMP-snooping statistics. The keywords message, packet, hardware, VLAN are optional. With optional keywords, the message statistics, received packet statistics, hardware operation statistics, and sub-VLAN statistics of the IGMP-Snooping task are displayed separately. Without optional keywords, global messages, messages, and hardware operation statistics are displayed. When using a keyword VLAN, you need to specify *Parameter*vlanid to display the statistics under the VLAN.

**Example**

The following example shows igmp-snooping statistics:

```
Switch#show ip igmp-snooping statistics
```

```
IGMP Snooping Message Statistics
```

```
-----
L2 main messages sent OK      : 305
L2 main messages sent failed  : 0
L2 packets received          : 302
L2 packets sent              : 302
L2 packets sent failed       : 0
L2 link-status messages      : 3
IGMP Snooping messages received: 313
IGMP packet messages received : 302
```

```
IGMP Snooping Packet Statistics
```

```
-----
```

```

Received packets           : 302
IGMP packets               : 259
M-routing protocol packets : 0
Other packets              : 43
Received IGMP general queries : 0
Received IGMPv2 specific queries : 0
Received IGMPv3 g specific queries : 0
Received IGMPv3 gs specific queries: 0
Received IGMPv1 reports    : 0
Received IGMPv2 reports    : 230
Received IGMP leaves       : 0
Received IGMPv3 reports    : 29
Flooded queries            : 0
Forwarded and proxy-sent reports : 0
Forwarded and proxy-sent leaves : 0

```

#### IGMP Snooping Hardware Operation Statistics

```

-----
Total           : 9
Succeeded       : 9
Failed          : 0
Report/leave processing: 5
Response timer expiring: 4
Group creating/updating: 7
Group deleting  : 2

```

### 1.1.25 show ip igmp-snooping vlan

#### Syntax

**show ip igmp-snooping vlan** *vlan-id*

#### Parameter

Parameter	Description
vlan	1-4094

#### Default

None

#### Usage Guidelines

Display VLAN information of IGMP-snooping.

## Example

The following example shows how to display the vlan information of igmp-snooping.

```
Switch_config#show ip igmp-snooping vlan
vlan_id    Immediate-leave  Ports    Router Ports
-----
          1         Disabled    7-30
          2         Disabled    NULL
switch_config#
```

### 1.1.26 debug ip igmp-snooping packet

#### Syntax

```
debug ip igmp-snooping packet
no debug ip igmp-snooping packet
```

#### Parameter

None

#### Default

None

#### Usage Guidelines

Use this command to enable/disable the packet debugging switch of IGMP-snooping.

## Example

The followig command enables the packet debugging switch of igmp-snooping:

```
switch# debug ip igmp-snooping packet
switch#
```

### 1.1.27 debug ip igmp-snooping timer

#### Syntax

```
debug ip igmp-snooping timer
no debug ip igmp-snooping timer
```



**Parameter**

None

**Default**

None

**Usage Guidelines**

Use this command to enable/disable the timer debugging switch of IGMP-snooping

**Example**

The following example enables timer debugging switch of igmp-snooping:

```
switch# debug ip igmp-snooping timer
switch#
```

### 1.1.28 debug ip igmp-snooping event

**Syntax**

**debug ip igmp-snooping event**

**no debug ip igmp-snooping event**

**Parameter**

None

**Default**

None

**Usage Guidelines**

Use this command to enable/disable the event debugging switch of IGMP-snooping.

**Example**

The following example enable event debugging switch of igmp-snooping:

```
Switch#debug ip igmp-snooping event
Switch#
```

### 1.1.29 debug ip igmp-snooping error

#### Syntax

**debug ip igmp-snooping error**

**no debug ip igmp-snooping error**

#### Parameter

None

#### Default

None

#### Usage Guidelines

Use this command to enable/disable the error debugging switch of IGMP-snooping.

#### Example

The following example shows how to enable error debugging switch of igmp-snooping:

```
Switch#debug ip igmp-snooping error
Switch#
```

### 1.1.30 debug ip igmp-snooping

#### Syntax

**debug ip igmp-snooping**

**no debug ip igmp-snooping**

#### Parameter

None

#### Default

None

## Usage Guidelines

Turn on/off all debugging switches of igmp-snnoping.

## Example

The following example shows how to turn on all debugging switches of igmp-snooping.

```
Switch#debug ip igmp-snooping
IGMP-snooping packet debugging is on
IGMP-snooping timer debugging is on
IGMP-snooping event debugging is on
IGMP-snooping error debugging is on
Switch#
```