

# IGMP Proxy Commands

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# Chapter 1 IGMP Proxy Commands

IGMP-proxy commands include:

Ip igmp-proxy

ip igmp-proxy agent-vlan client-vlan map

ip igmp-proxy source svlan sport

show ip igmp-proxy mcache

show ip igmp-proxy

debug ip igmp-proxy

## 1.1 ip igmp-proxy enable

### Syntax

**ip igmp-proxy enable**

**no ip igmp-proxy enable**

To enable or disable IGMP proxy, run **ip igmp-proxy enable**. To resume the default value, run **no ip igmp-proxy enable**.

### Parameter

Parameter	Description
N/A	

### Default value

The IGMP proxy is disabled by default.

### Remarks

N/A

### Example

The following example shows how to enable the IGMP proxy:

```
switch_config# ip igmp-proxy enable
```

```
switch_config#
```

## 1.2 ip igmp-proxy agent-vlan client-vlan map

### Syntax

```
ip igmp-proxy agent-vlan avlan_map client-vlan map cvlan_map no ip  
igmp-proxy agent-vlan avlan_map client-vlan map cvlan_map
```

### Parameter

Parameter	Description
<i>avlan_map</i>	Agent VLAN
<i>cvlan_map</i>	Customer VLAN

### Default value

N/A

### Remarks

1. The represented VLAN cannot be configured before vlan is designated by *avlan\_map*; also, the agent VLAN cannot be configured before *cvlan\_map*.
2. The represented and agent VLANs must accept the control of IGMP-Snooping.

### Example

The following example shows how to set vlan2 to be the agent vlan of vlan1.

```
switch_config# ip igmp-proxy agent-vlan 2 client-vlan map 1  
switch_config#
```

## 1.3 ip igmp-proxy source svlan sport

### Syntax

```
ip igmp-proxy source multi_ip src_ip svlan vlan_id sport intf_name  
no ip igmp-proxy source multi_ip src_ip svlan vlan_id sport intf_name
```

To set the entries of the static multicast source, run the above-mentioned command.

## Parameter

Parameter	Description
multi_ip	Multicast IP address
src_ip	Multicast source's IP address
vlan_id	Multicast source VLAN
intf_name	Physical port of the multicast source

## Default value

N/A.

## Remarks

Only when there are multicast source entries can IGMP-proxy work normally. What is mentioned here is to add static multicast source entries.

## Example

The following example shows how to add a multicast source entry with 234.5.6.7 as its static multicast address, 1.2.3.4 as its source address, 2 as its source VLAN and gigabit portg0/1 as its source port.

```
switch_config# ip igmp-proxy source 234.5.6.7 1.2.3.4 svlan 2 sport g0/1
switch_config#
```

**Note:**

The SVLAN mentioned here is the multicast source VLAN and the vlan ID of SVLAN cannot be that of represented VLAN.

## 1.4 show ip igmp-proxy mcache

## Syntax

```
show ip igmp-proxy mcache [delete | nonsync | sync | static]
```

## Parameter

Parameter	Description
<i>delete</i>	Displays those entries of which hardware caches are deleted but software caches do not time out.
<i>nonsync</i>	Displays those entries that have been processed but not yet synchronized to the hardware cache.

<i>sync</i>	Displays those entries already in the hardware cache.
<i>static</i>	Displays the entries of the IGMP-proxy static multicast cache.

#### Default value

All entries are to be displayed if no filtration conditions are specified.

#### Remarks

The multicast source entries of IGMP-proxy are displayed.

#### Example

The following example shows how to display the information about the IGMP-proxy multicast source.

```
Switch# show ip igmp-proxy mcache
Codes: '+' synchronization, '-' deleted, 'S'
       static '^' unsynchronization
```

```
Item 1: Group 225.1.1.2
       +(192.168.213.163, 2, G3/24)
       VLAN 3,4
```

## 1.5 show ip igmp-proxy

#### Syntax

```
show ip igmp-proxy
```

#### Parameter

N/A

#### Default value

N/A

#### Remarks

This command is used to display the configurations about IGMP proxy.

## Example

The following example shows how to display the configurations of IGMP proxy.

```
switch#show ip igmp-proxy
Global IGMP proxy configuration:
-----
Globally enable    : Enable

Agent: vlan 2, it has been allocated

-----
Client static     : vlan 1
Client auto       : vlan
Agent: vlan 3, it has been allocated

-----
Client static     : vlan 1
Client auto       : vlan

Globally clients list
-----
Client           : vlan 1, it has been allocated

Static Multi-source list
-----
Static Source    : No Static Source
switch#
```

## 1.6 debug ip igmp-proxy

### Syntax

**debug ip igmp-proxy** [*error* | *event* | *packet*]

**no debug ip igmp-proxy** [*error* | *event* | *packet*]

### Parameter

Parameter	Description
<i>event</i>	Debugs the IGMP-snooping event.
<i>packet</i>	Debugs the reception and transmission of IGMP-snooping.
<i>error</i>	Debugs the IGMP-snooping errors.

Default value

N/A

Remarks

This command is used to enable or disable the debugging & printing switch of IGMP-proxy.