



## IGMP Snooping Command Reference

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This chapter describes commands used to configure Internet Group Management Protocol (IGMP) snooping.

- [ip igmp snooping, page 2](#)
- [ip igmp snooping immediate-leave, page 3](#)
- [ip igmp snooping mrouter, page 4](#)
- [ip igmp snooping report-suppression, page 5](#)
- [show ip igmp snooping, page 6](#)
- [show ip igmp snooping querier, page 9](#)

**ip igmp snooping**

# ip igmp snooping

To enable Internet Group Management Protocol (IGMP) snooping, use the **ip igmp snooping** command in the bridge domain configuration mode. To disable IGMP snooping, use the **no** form of this command.

**ip igmp snooping**

**no ip igmp snooping**

## Syntax Description

This command has no arguments or keywords.

## Command Default

IGMP snooping is not enabled.

## Command Modes

Bridge domain configuration (config-bdomain)

## Command History

Release	Modification
9.3.0	This command was introduced.

## Usage Guidelines

On a CPT system, IGMP snooping can be configured at the bridge domain level.

Following configuration restrictions are applicable while configuring the IGMP snooping on the CPT system:

- For a single tagged packet, the tag is removed using the rewrite ingress tag pop 1 symmetric command at the EFP level.
- For a double tagged packet, the tag is removed using the rewrite ingress tag pop 2 symmetric command at the EFP level.
- For an untagged packet, a rewrite operation is not required.

## Examples

The following example shows how to enable IGMP snooping on a bridge domain:

```
Router(config)# bridge-domain 30
Router(config-bdomain)# ip igmp snooping
```

## Related Commands

Command	Description
<b>show ip igmp snooping</b>	Displays the IGMP snooping configuration.

# ip igmp snooping immediate-leave

To enable Internet Group Management Protocol (IGMP) Immediate-Leave processing on a bridge-domain, use the **ip igmp snooping immediate-leave** command in global configuration mode. To disable Immediate-Leave processing on the bridge domain, use the **no** form of this command.

**ip igmp snooping immediate-leave**

**no ip igmp snooping immediate-leave**

## Syntax Description

This command has no arguments or keywords.

## Command Default

By default, IGMP Immediate-Leave processing is disabled.

## Command Modes

Bridge domain configuration (config-bdomain)

## Command History

	Release	Modification
9.3.0		This command was introduced.

## Usage Guidelines

The Immediate Leave feature is supported only on IGMP version 2 hosts.

## Examples

The following example shows how to enable IGMP Immediate Leave feature for bridge-domain130:

```
Router# configure terminal
Router(config)# bridge-domain 130
Router(config-bdomain)# ip igmp snooping immediate-leave
Router(config-bdomain)# end
```

## Related Commands

Command	Description
<b>ip igmp snooping</b>	Enables IGMP snooping on the bridge domain.
<b>ip igmp snooping mrouter</b>	Configures a multicast router port.

**ip igmp snooping mrouter**

# ip igmp snooping mrouter

To configure a port as a multicast router port, use the **ip igmp snooping mrouter** command in the service-instance configuration mode. To remove the configuration, use the **no** form of this command.

**ip igmp snooping mrouter**

**no ip igmp snooping mrouter**

## Syntax Description

This command has no arguments or keywords.

## Command Default

Disabled

## Command Modes

Service-instance configuration (config-if-srv)

## Command History

Release	Modification
9.3.0	This command was introduced.

## Usage Guidelines

Static connections to multicast routers are supported only at the EFP.

## Examples

The following example shows how to enable a static connection to a multicast router:

```
Router(config)# interface TenGigabitEthernet4/2
Router(config-if)# service instance 20 ethernet
Router(config-if-srv)# encapsulation dot1q 10
Router(config-if-srv)# rewrite ingress tag pop 1 symmetric
Router(config-if-srv)# bridge-domain 20
Router(config-if-srv)# ip igmp snooping mrouter
```

The following example shows how to disable a static connection to a multicast router:

```
Router(config)# interface TenGigabitEthernet4/2
Router(config-if)# service instance 20 ethernet
Router(config-if-srv)# no ip igmp snooping mrouter
```

## Related Commands

Command	Description
<b>ip igmp snooping</b>	Enables IGMP snooping on the bridge domain.
<b>show ip igmp snooping mrouter</b>	Displays the information about the dynamically learned and manually configured multicast router interfaces.

# ip igmp snooping report-suppression

To turn on IP IGMP snooping report suppression, use the **ip igmp snooping report-suppression** command in the bridge domain configuration mode. To turn off report suppression, use the **no** form of this command.

**ip igmp snooping report-suppression**

**no ip igmp snooping report-suppression**

## Syntax Description

---

This command has no arguments or keywords.

---

## Command Default

Disabled

## Command Modes

Bridge domain configuration (config-bdomain)

## Command History

Release	Modification
9.3.0	This command was introduced.

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## Usage Guidelines

IGMP report suppression is supported only when the multicast query has IGMPv1 and IGMPv2 reports. This feature is not supported when the query includes IGMPv3 reports.

## Examples

The following example shows how to re-enable IGMP report suppression for bridge-domain 130:

```
Router# configure terminal
Router(config-bdomain) # bridge-domain 130
Router(config-bdomain) # ip igmp snooping report-suppression
Router(config-bdomain) # end
```

## Related Commands

Command	Description
<b>show ip igmp snooping</b>	Displays the IGMP snooping configuration.

**show ip igmp snooping**

# show ip igmp snooping

To display the Internet Group Management Protocol (IGMP) snooping configuration of a device, use the **show ip igmp snooping** command in the privileged EXEC mode.

**show ip igmp snooping [groups [count | vlan bridge-domain ID | ip-address | count | dynamic [count] | user [count] ]]] | mrouter [vlan bridge-domain ID] querier | vlan bridge-domain ID]**

## Syntax Description

<b>groups</b>	(Optional) Displays group information.
<b>count</b>	(Optional) Displays the number of multicast groups learned by IGMP snooping.
<b>vlan bridge-domain ID</b>	(Optional) Specifies a bridge domain. <i>bridge-domain ID</i> — Bridge domain ID. Valid values are from 1 to 16384.
<i>ip-address</i>	(Optional) Displays information about the specified group.
<b>count</b>	(Optional) Displays the group count inside a bridge domain.
<b>dynamic</b>	(Optional) Displays dynamic entries learned through IGMP snooping.
<b>count</b>	(Optional) Displays the number of dynamic entries.
<b>user</b>	(Optional) Displays only the user-configured multicast entries.
<b>count</b>	(Optional) Displays the number of user-configured multicast entries.
<b>mrouter</b>	(Optional) Displays information about dynamically learned and manually configured multicast router ports.
<b>querier</b>	(Optional) Displays IGMP querier information.

## Command Default

This command has no default settings.

## Command Modes

Privileged EXEC (#)

## Command History

Release	Modification
9.3.0	This command was introduced.

## Examples

The following example displays the output of the **show ip igmp snooping [vlan bridge-domain ID]** command.

```
Router# show ip igmp sn vlan 2
```

```

Global IGMP Snooping configuration:
-----
IGMP snooping Oper State      : Enabled
IGMPv3 snooping (minimal)    : Enabled
Report suppression            : Enabled
TCN solicit query             : Disabled
Robustness variable           : 2
Last member query count       : 2
Last member query interval    : 1000
Check TTL=1                   : No
Check Router-Alert-Option     : No

Vlan 2
-----
IGMP snooping Admin State     : Enabled
IGMP snooping Oper State      : Enabled
IGMPv2 immediate leave        : Disabled
Report suppression             : Enabled
Robustness variable            : 2
Last member query count        : 2
Last member query interval     : 1000
Check TTL=1                    : Yes
Check Router-Alert-Option      : Yes
Query Interval                 : 0
Max Response Time              : 10000

```

The following example displays the output of the **show ip igmp snooping groups** command.

```
Router# show ip igmp snooping groups
```

```

Flags: I -- IGMP snooping, S -- Static, P -- PIM snooping, A -- ASM mode
Vlan      Group/source          Type      Version      Port List
-----
2         224.1.1.1              I          v2          Te7/4  Te5/2
Gi41/1   Gi41/44   Gi51/1   Gi51/44  Te4/2

```

The following example displays the output of the **show ip igmp snooping groups vlan** command.

```
Router# show ip igmp snooping groups vlan 2
```

```

Flags: I -- IGMP snooping, S -- Static, P -- PIM snooping, A -- ASM mode
Vlan      Group/source          Type      Version      Port List
-----
2         224.1.1.1              I          v2          Te7/4  Te5/2
Gi41/1   Gi41/44   Gi51/1   Gi51/44  Te4/2

```

The following example displays the output of the **show ip igmp snooping groups vlan bridge-domain ID [ip\_address]** command.

```
Router# show ip igmp snooping groups vlan 2 224.1.1.1
```

```

Flags: I -- IGMP snooping, S -- Static, P -- PIM snooping, A -- ASM mode
Vlan      Group/source          Type      Version      Port List
-----
2         224.1.1.1              I          v2          Te7/4  Te5/2
Gi41/1   Gi41/44   Gi51/1   Gi51/44  Te4/2

```

**show ip igmp snooping**

The following example displays the output of the **show ip igmp snooping mrouter** command.

```
Router# show ip igmp snooping mrouter
```

Vlan	ports
---	----
2	Te4/4 (dynamic)

The following example displays the output of the **show ip igmp snooping mrouter vlan 2** command.

```
Router# show ip igmp snooping mrouter
```

Vlan	ports
---	----
2	Te4/4 (dynamic)

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>ip igmp snooping</b>	Enables IGMP snooping on the bridge domain.
<b>ip igmp snooping immediate-leave</b>	Enables IGMP snooping immediate leave.
<b>ip igmp snooping mrouter</b>	Configures a multicast router port.

# show ip igmp snooping querier

To display information about the IP address and the receiving port for the recently received IGMP query messages, use the **show ip igmp snooping querier** command.

**show ip igmp snooping querier [vlan bridge-domain ID ] [detail]**

## Syntax Description

<b>vlan</b> <i>bridge-domain ID</i>	(Optional) Specifies a bridge domain. <i>bridge-domain ID</i> — Bridge domain ID. Valid values are from 1 to 16384.
<b>detail</b>	Specifies the configuration and operational state of the IGMP snooping querier in the bridge domain.

## Command Default

This command has no default settings.

## Command Modes

Privileged EXEC (#)

## Command History

Release	Modification
9.3.0	This command was introduced.

## Examples

The following example shows the output of the **show ip igmp snooping querier** command.

```
Router# show ip igmp snooping querier
```

Vlan	IP Address	IGMP Version	Port
2	10.10.10.1	v2	Te4/4

The following example shows the output of the **show ip igmp snooping querier [vlan bridge-domain ID ]** command.

```
Router# show ip igmp snooping querier vlan 2
```

IP address	:	10.10.10.1
IGMP version	:	v2
Port	:	Te4/4
Max response time	:	10s

## Related Commands

Command	Description
<b>ip igmp snooping</b>	Enables IGMP snooping on the bridge domain.

```
show ip igmp snooping querier
```

Command	Description
<b>ip igmp snooping mrouter</b>	Configures a multicast router port.