Multicast Configuration

igmp-snooping

To enable IGMP Snooping, use the **igmp-snooping** in the global configuration mode. To disable IGMP Snooping use the **no** form of the command.

igmp-snooping

no igmp-snooping

Syntax Description

igmp-snooping	Enables IGMP Snooping.

Command Default

IGMP Snooping is enabled by default.

Command Modes

Interface configuration

Examples

The following example shows how to enable IGMP Snooping.

```
Device(config)#igmp-snooping
```

igmp-snooping drop

To configure a port to drop query or report packets, use the **igmp-snooping drop** command in the interface configuration mode. To configure the port to start receiving IGMP query or report packets, use the **no** form of the command.

igmp-snooping drop {**query** | **report**}

no igmp-snooping drop

Syntax Description

query	Configures the port to drop IGMP query packets.
report	Configures the port to drop IGMP report packets.

Command Default

Packet dropping is not enabled by default.

Command Modes

Interface configuration

Examples

The following example shows how to comfigure a port to drop query packets:

```
Device(config-if-ethernet-1/1)# igmp-snooping drop query
```

igmp-snooping fast-leave

To remove the port directly from the multicast group upon receiving an IGMP Leave message, use the **igmp-snooping fast-leave** command in the interface configuration mode. To disable fast leave use the **no** form of the command.

igmp-snooping fast-leave

no igmp-snooping fast-leave

Syntax Description

fast-leave	Removes the port directly from the multicast group upon receiving an IGMP Leave message

Command Default

Fast leave is not configured by default.

Command Modes

Interface configuration

Examples

The following example shows how to configure fast leave:

```
Device(config-if-ethernet-1/1)#igmp-snooping fast-leave
```

igmp-snooping group-limit action

To configure the action that the port will perform when it reaches the maximum number of multicast groups it can join, use the **igmp-snooping group-limit action** command in the interface configuration mode.

igmp-snooping group-limit action {**drop** | **replace**}

Syntax Description

drop	Drops the multicast group. This is the default action.
replace	Replaces an old multicast group with the new group.

Command Default

When the group limit is reached, the new group is dropped.

Command Modes

Interface configuration

Examples

This example shows how to configure the port to drop new multicast groups when it reaches the group limit

```
Device(config-if-ethernet-1/1)#igmp-snooping group-limit action drop
```

igmp-snooping group-limit

To configure the maximum number of multicast groups that an interface or a port can learn or join, use the **igmp-snooping group-limit** command in the interface configuration mode. To undo the limit on the maximum number of multicast groups that a port can join use the **no** form of the command.

igmp-snooping group-limit *number*

no igmp-snooping group-limit

Syntax Description

number	Specifies the maximum number of multicast groups that a port can join.The range is 0-1024.

Command Default

No limit is configured by default.

Command Modes

Interface configuration

Examples

The following examples shows how to configure a group limit of 100:

```
Device(config-if-ethernet-1/4)#igmp-snooping group-limit 100
```

igmp-snooping general-query source-ip

To configure the source IP address for sending general query packets, use the **igmp-snooping general-query source-ip** command in the global configuration mode. To disable the source IP address for sending general query, use the **no** form of the command.

igmp-snooping general-query source-ip*ip-address*

no igmp-snooping general-query source-ip*ip-address*

Syntax Description

ip-address	Configures the source IP address for sending general query packets.

Command Default

None

Command Modes

Global configuration

Examples

The following example shows how to configure a source IP address for sending general query packets:

```
Device(config)# igmp-snooping general-query source-ip 192.168.1.2
```

igmp-snooping host-aging-time

To configure the aging time of dynamic multicast members, use the **igmp-snooping host-aging-time** command in the global configuration mode. To disable aging time for dynamic multicast members use the **no** form of the command.

igmp-snooping host-aging-time*time*

no igmp-snooping host-aging-time

Syntax Description

time	Specifies the aging time for dynamic multicast members. The range is from 10-1000000 seconds. The default value is 300 seconds.

Command Default

The aging time is set to 300 seconds.

Command Modes

Global configuration

Examples

The following example shows how to configure an aging time of 500 seconds:

```
Device(config)# igmp-snooping host-aging-time 500
```

igmp-snooping max-response-time

To configure the maximum waiting time for deleting group ports after receiving a leave packet, use the **igmp-snooping max-resposne-time** command in the global configuration mode.To disable a maximum waiting time use the **no** form of the command.

igmp-snooping max-response-time *time*

no igmp-snooping max-response-time *time*

Syntax Description

time	Configures the maximum waiting time for deleting group ports after receiving a leave packet. The range is from 1-100 seconds. The default value is 10 seconds.

Command Default

The default maximum waiting time is 10 seconds.

Command Modes

Global configuration

Examples

The following example shows how to configure a maximum response time of 20 seconds:

```
Device(config)# igmp-snooping max-response-time 20
```

igmp-snooping multicast vlan

To configure multicast VLAN for IGMP packets, use the **igmp-snooping multicast vlan** command in the interface configuration mode. To disable multicast VLAN for IGMP packets, use the **no** form of the command.

igmp-snooping multicast vlan *vlan-id*

no igmp-snooping multicast vlan

Syntax Description

multicast vlan	Configures multicast VLAN for the IGMP packets on the port.

Command Default

None

Command Modes

Interface configuration

Examples

The following example shows how to enable multicast VLAN for IGMP packets on VLANs 1-50:

```
Device(config-if-ethernet-1/1)# igmp-snooping multicast vlan 50
```

igmp-snooping {permit|deny}

To configure the default learning rule for multicast groups that are not in the blocked list or the allowed list, use the **igmp-snooping {permit|deny}** command in the global configuration mode. By default, the learning rule for all multicast groups that are not in the blocked list or the allowed list is to learn all multicast groups.

igmp-snooping {**permit** | **deny**} {**group all** | **vlan***vlan-id*

Syntax Description

permit	Configures the list of groups that are permitted to join by IGMP snooping.
deny	Configures the list of groups that are denied to join by IGMP snooping.

Command Default

Default is to learn all multicast groups that are not in the blocked list or the allowed list

Command Modes

Global configuration

Examples

This example shows how to configure the rule to learn all multicast groups:

```
Device(config)#igmp-snooping permit group all
```

igmp-snooping profile refer

To configure a profile or a list of profiles as a reference for a port, use the **igmp-snooping profile refer** command in the interface configuration mode. You can disable the profile reference of a port using the **no** form of the command.

igmp-snooping profile refer*profile-list*

no igmp-snooping profile refer*profile-list*

Syntax Description

profile-list	Configures a list of reference profiles for the port.

Command Default

None

Command Modes

Interface configuration

Examples

The following exaple shows how to create reference profile for the port:

```
Device(config-if)# igmp-snooping profile refer 1-5
```

igmp-snooping profile

To create an IGMP Snooping profile, use the **igmp-snooping profile** command in the global configuration mode. To disable IGMP snooping profile use the **no** form of the command.

igmp-snooping profile *profile-id*

no igmp-snooping profile

Syntax Description

profile-id	Functions as an identifier for an IGMP Snooping profile. The range is 1-128.

Command Default

IGMP Snooping profile is not enabled by default.

Command Modes

Global configuration

Examples

The following example shows how to create an IGMP Snooping profile:

```
Device(config)# igmp-snooping profile 1
```

igmp-snooping {permit|deny} group-range

To configure a port to learn (or not learn) a range of MAC addresses and VLAN ids, use the **igmp-snooping {permit|deny} group-range** command in the interface configuration mode.

igmp-snooping {**permit** | **deny**} **group-range** *MAC-address* **multi-count** *multi-count-number***vlan** *vlan-list*

Syntax Description

multi-count *multi-count-number*	Configures the number of MAC addresses in the group range.

Command Default

None

Command Modes

Interface configuration

Examples

The following example shows how to permit a group range of MAC addresses and VLAN ids:

```
Device(config-if-ethernet-1/1)# igmp-snooping permit group-range 01:00:5e:09:08:07 multi-count
 12 vlan 10
```

igmp-snooping query-interval

To configure the interval for sending general query packets, use the **igmp-snooping query-interval** command in the global configuration mode.

igmp-snooping query-interval *interval*

Syntax Description

interval	Configures the interval for sending general query packets. The range is from 1 to 30000 seconds.

Command Default

None

Command Modes

Global configuration

Examples

The following example shows how to configure the IGMP Snooping query interval to 500 seconds:

```
Device(config)# igmp-snooping query-interval 500
```

igmp-snooping querier version

To configure the version of the IGMP Snooping querier, use the **igmp-snooping querier version** command in the global configuration mode. The IGMP snooping querier version is set to 2 by default.

igmp-snooping querier version *version-id*

Syntax Description

version-id	Configures the version of the IGMP Snooping querier. The range is 2-3. The default version is 2.

Command Default

the querier is set to version 2 by default.

Command Modes

Global configuration

Examples

The following example shows how to configure the IGMP Snooping querier vesion to version 3:

```
Device(config)# igmp-snooping querier version 3
```

igmp-snooping querier-vlan

To configure VLANs for general query packets, use the **igmp-snooping querier-vlan** command in the global configuration mode. To disable VLANs for query packets use the **no** form of the command.

igmp-snooping querier-vlan*vlan-list*

no igmp-snooping querier-vlan*vlan-list*

Syntax Description

querier-vlan	Configures a list of VLANs for general query packets.

Command Default

None

Command Modes

Global configuration

Examples

The following example shows how to configure VLANs for the IGMP-Snooping querier:

```
Device(config)# igmp-snooping querier-vlan 1-50
```

igmp-snooping query-max-respond

To configure the maximum response time for general query packets, use the **igmp-snooping query-max-respond** command in the global configuration mode. To disable a maximum response time, use the **no** form of the command.

igmp-snooping query-max-respond *time*

no igmp-snooping query-max-respond *time*

Syntax Description

time	Configures the maximum response time for general query packets. The range is from 1 to 25 seconds.

Command Default

None

Command Modes

Global configuration

Examples

The following example shows how to configure the maximum response time for general query packets to 10 seconds:

```
Device(config)# igmp-snooping query-max-respond 10
```

igmp-snooping record-host

To enable recording the MAC address of the source of an IGMP report packet, use the **igmp-snooping record-host** command in the interface configuration mode. To disable the recording of the host MAC address, use the **no** form of the command.

igmp-snooping record-host

no igmp-snooping record-host

Syntax Description

record-host	Enables recording the MAC address of the source of an IGMP report packet

Command Default

recording is not enabled by default

Command Modes

Interface configuration

Examples

The following example shows how to configure a port to record the host MAC address

```
Device(config-if-ethernet-1/1)# igmp-snooping record-host
```

igmp-snooping router-port-age

To configure the ageing time for the dynamic route port, use the **igmp-snooping router-port-age** command in the global configuration mode. To disable ageing time for the dynamic route port, use the **no** form of the command.

igmp-snooping router-port-age {**on** | **off** | *age-time*}

no igmp-snooping router-port-age {**on** | **off** | *age-time*}

Syntax Description

on	Starts router port age
off	Stops router port age.
age-time	Sets router port age time in seconds. The range is 10-1000000 seconds. The default value is 300 seconds.

Command Default

The router port age is on by default.

Command Modes

Global configuration

Examples

The following example shows how to start the rotuter port age:

```
Device(config)# igmp-snooping router-port-age on
```

igmp-snooping route-port forward

To configure a dynamic route port to forward multicast traffic packets, use the **igmp-snooping route-port forward** command in the global configuration mode. To disable the route port from forwarding multicast traffic packets, use the **no** form of the command.

igmp-snooping route-port forward

no igmp-snooping route-port forward

Syntax Description

forward	Configures the port to forward multicast traffic packets.

Command Default

None

Command Modes

Global configuration

Examples

The following example shows how to configure a dynamic route port to forward multicast traffic packets:

```
Device(config)#igmp-snooping route-port forward
```

igmp-snooping report-supression

To enable IGMP Snooping supression of multicast reports, use the **igmp-snooping report-supression** command in the global configuration mode. To disable the suppression of multicast reports, use the **no** form of the command.

igmp-snooping report-supression

no igmp-snooping report-supression

Syntax Description

report-supression	Enables IGMP Snooping supression of multicast reports.

Command Default

Report supression is not enabled by default.

Command Modes

Global configuration

Examples

The following example shows how to enable IGMP Snooping report supression:

```
Device(config)# igmp-snooping report-suppression
```

igmp-snooping route-port vlan

To configure a static route port, use the **igmp-snooping route-port vlan** command in the global configuration mode. You can disable the static route port by using the **no** form of the command.

igmp-snooping route-port vlan *vlan-id* **interface** {**all** | **channel-group** *channel-group-id* | **ethernet** *interface-number*

no igmp-snooping route-port vlan *vlan-id* **interface** {**all** | **channel-group** *channel-group-id* | **ethernet** *interface-number*

Syntax Description

channel-group-id	Specifies the number of the channel group. The range is from 0-5.
interface-number	Specifies the ethernet interface number.

Command Default

None.

Command Modes

Global configuration

Examples

The following examples shows how to configure all the ports of an interface as static route ports:

```
Device(config)# igmp-snooping route-port vlan 50 interface all
```

ip range

To configure the range of IP addresses and VLAN IDs for an IGMP profile, use the **ip range** command in profile configuration mode.

ip range *start-ip-address end-ip-address* **vlan** *vlan-id*

Syntax Description

start-ip-address	Configures the start IP Address for the IGMP Snooping profile. The IP addresses range is from 224.0.0.1 to 239.255.255.254.
end-ip-address	Configures the end IP Address for the IGMP Snooping profile.The IP addresses range is from 224.0.0.1 to 239.255.255.254.
vlan-id	Configures the range of VLAN IDs for the IGMP Snooping profile. The VLAN id range is from 1 to 4094.

Command Default

None

Profile configuration mode

Examples

The following example shows how to configure the range of IP addresses and VLAN ids for an IGMP Snooping profile.

```
Device(config-igmp-profile-1)# ip range 224.0.0.1 239.255.255.254 vlan 50
```

mac range

To configure the range of MAC addresses and VLAN IDs for an IGMP profile, use the **mac range** command in profile configuration mode.

mac range *start-mac-address end-mac-address* **vlan** *vlan-id*

Syntax Description

start-mac-address	Configures the start MAC Address for the IGMP Snooping profile. The MAC addresses range is 01:00:5e:H:H:H. .
end-mac-address	Configures the end MAC Address for the IGMP Snooping profile.The MAC addresses range is 01:00:5e:H:H:H.
vlan-id	Configures the range of VLAN IDs for the IGMP Snooping profile. The VLAN id range is from 1 to 4094.

Command Default

None

Command Modes

Profile configuration

Examples

The following example shows how to configure the range of MAC addresses and VLAN ids for an IGMP Snooping profile.

```
Device(config-igmp-profile-1)# mac range 01:00:5e:09:08:07 01:00:5e:09:09:08 vlan 50
```

multicast

To create a static multicast group, use the **multicast** command in the global configuration mode.

multicast { **mac-address***mac-address* | **ip-address** *ip-address* } **vlan** *vlan-id*

Syntax Description

ip-address	Configures the static multicast IP address. It can only be in the format 224.x.x.x.
mac-address	Configures the static multicast MAC address. It can only be in the format 01:00:5e:H:H:H.
vlan-id	Configures the VLANS for the static multicast group.

Command Default

Multicast group is not configured by default.

Command Modes

Global configuration

The following example shows how to configure a static multicast group:

```
Device(config)# multicast ip-address 224.0.0.3 vlan  50
Adding multicast group successfully !
```

multicast ds-tag add

To configure the ONT downlink multicast VLAN tag adding rule, use the **multicast ds-tag add** command in line profile configuration mode.

To disable the ONT uplink multicast VLAN tag adding rule, use the **no multicast ds-tag add** command.

multicast ds-tag add *vlan_id* {*priority* | **port** *port_id*}

no multicast ds-tag port *port_id*

Syntax Description

vlan_id	The VLAN ID The range is from 1 to 4094.
priority	The 802.1 priority value. The range is from 0 to 7.
port_id	The ONT Ethernet port ID. The range is from 1 to 24.

Command Modes

Line profile configuration (deploy-profile-line)

Examples

This example shows how to configure the ONT downlink multicast VLAN tag adding rule.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile line
Device(deploy-profile-line)# aim 5
Device(deploy-profile-line-5)# multicast ds-tag add 3
```

multicast ds-tag remove

To configure the ONT downlink multicast VLAN tag removing rule, use the **multicast ds-tag remove port** command in line profile configuration mode. To delete the ONT downlink multicast VLAN tag, use the **no multicast ds-tag port** command

multicast ds-tag remove [**port** *port_id*]

no multicast ds-tag [**port** *port_id*]

Syntax Description

port_id	The ONT Ethernet port ID. The range is from 1 to 24.

Command Modes

Line profile configuration (deploy-profile-line)

Examples

This example shows how to configure the ONT downlink multicast VLAN tag removing rule.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile line
Device(deploy-profile-line)# aim 5
Device(deploy-profile-line-5)# multicast ds-tag remove
```

multicast ds-tag translate

To configure the ONT downlink multicast VLAN tag translating rule, use the **multicast ds-tag translate** command in line profile configuration mode.

multicast ds-tag translate *vlan_id* [{*priority* | **port** *port_id*}]

Syntax Description

vlan_id	The VLAN ID The range is from 1 to 4094.
priority	The 802.1 priority value. The range is from 0 to 7.
port_id	The ONT Ethernet port ID. The range is from 1 to 24.

Command Modes

Line profile configuration (deploy-profile-line)

Usage Guidelines

You must configure a device type.

Examples

This example shows how to configure the ONT downlink multicast VLAN tag translating rule.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile line
Device(deploy-profile-line)# aim 5
Device(deploy-profile-line-5)# multicast ds-tag translate 3
```

multicast fast-leave disable

To disable fast-leave, use the **multicast fast-leave disable** command in global configuration mode.

multicast fast-leave disable [**port** *port_id*]

no multicast fast-leave disable [**port** *port_id*]

Syntax Description

port_id	The ONT Ethernet port ID. The range is from 1 to 24.

Command Modes

Line profile configuration (deploy-profile-line)

Examples

This example shows how to disable fast-leave on a port.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile line
Device(deploy-profile-line)# aim 5
Device(deploy-profile-line-5)# multicast fast-leave disable
```

multicast group-limit

To configure the limit of multicast groups, use the **multicast group-limit** *limit_number* command in line profile configuration mode. To disable the limit of multicast groups, use the **no multicast group-limit** *limit_number* command.

multicast group-limit *limit_number* [**port** *port_id*]

no multicast group-limit *limit_number* [**port** *port_id*]

Syntax Description

limit_number	The multicast group limit. The range is from 1 to 128.
port_id	The ONT Ethernet port ID. The range is from 1 to 24.

Command Modes

Line profile configuration (deploy-profile-line)

Examples

This example shows how to configure the limit of multicast groups.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile line
Device(deploy-profile-line)# aim 5
Device(deploy-profile-line-5)# multicast group-limit 4
```

multicast interface

To add a port to a static multicast group, use the **multicast interface** command in the global configuration mode.

multicast { **mac-address***mac-address* | **ip-address** *ip-address* } **vlan** *vlan-id***interface** { **all** | *interface-list* }

Syntax Description

all	Adds all the ports of the interface to the static multicast group.
interface-list	Adds the specified ports of the interface to the static multicast group.

Command Default

None.

Command Modes

Global configuration

The following example shows how to add all the ports of an interface to a static multicast group:

```
Device(config)# multicast ip-address 224.0.0.11
vlan 1 interface all
```

multicast mode igmp-snooping

To enable Internet Group Management Protocol (IGMP) snooping, use the **multicast mode igmp-snooping** command in line profile configuration mode.

multicast mode igmp-snooping [**port** *port_id*]

Syntax Description

port_id	The ONT Ethernet port ID. The range is from 1 to 24.

Command Modes

Line profile configuration (deploy-profile-line)

Examples

This example shows how to enable IGMP snooping on a port.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile line
Device(deploy-profile-line)# aim 5
Device(deploy-profile-line-5)# multicast mode igmp-snooping port 10
```

multicast proxy-interval

To configure the interval at which the device sends report packets to the multicast source through the proxy port, use the **multicast proxy-inteval** command in the global configuration mode.

multicast proxy-interval *seconds*

Syntax Description

proxy-interval	Configures the interval at which the device sends report packets to the multicast source through the proxy port.
seconds	Configures the proxy-interval in seconds. The range is from 1-300. The default is 10 seconds.

Command Default

The default interval is 10 seconds.

Command Modes

Global configuration

Example

The following example shows how to configure the proxy-interval to 100 seconds

```
Device(config)# multicast proxy-interval 100
```

multicast proxy-port

To configure a proxy-port for the static multicast group, use the **multicast proxy-port** command in the global configuration mode.

multicast { **mac-address***mac-address* | **ip-address** *ip-address* } **vlan** *vlan-id***proxy-port ethernet** *port-id*

Syntax Description

proxy-port	Configures a proxy port to send the multicast report to the multicast source.
port-id	Configures the port that will act as the proxy port.

Command Default

None

Command Modes

Global configuration

The following example shows how to configure a proxy port for a static multicast group:

```
Device(config)# multicast ip-address 225.0.0.11 vlan 1 proxy-port ethernet 1/1
```

multicast us-tag add

To configure the ONT uplink multicast VLAN tag adding rule, use the **multicast us-tag add** command in line profile configuration mode. To disable the ONT uplink multicast VLAN tag adding rule, use the **no multicast us-tag add** command.

multicast us-tag add *vlan_id* {*priority* | **port** *port_id*}

`no multicast us-tag port` *port_id*

Syntax Description

vlan_id	The VLAN ID The range is from 1 to 4094.
priority	The 802.1 priority value. The range is from 0 to 7.
port_id	The ONT Ethernet port ID. The range is from 1 to 24.

Command Modes

Line profile configuration (deploy-profile-line)

Examples

This example shows how to configure the ONT uplink multicast VLAN tag adding rule

```
Device> enable
Device# configure terminal
Device(config)# deploy profile line
Device(deploy-profile-line)# aim 5
Device(deploy-profile-line-5)# multicast us-tag add 3
```

multicast us-tag translate

To configure the ONT downlink multicast VLAN tag translating rule, use the **multicast us-tag translate** command in line profile configuration mode. To disable the ONT downlink multicast VLAN tag translating rule, use the **no multicast us-tag translate** command

multicast us-tag translate *vlan_id* {*priority* | **port** *port_id*}

no multicast us-tag port *port_id*

Syntax Description

vlan_id	The VLAN ID The range is from 1 to 4094.
priority	The 802.1 priority value. The range is from 0 to 7.
port_id	The ONT Ethernet port ID. The range is from 1 to 24.

Command Modes

Line profile configuration (deploy-profile-line)

Examples

This example shows how to configure the ONT uplink multicast VLAN tag translating rule.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile line
Device(deploy-profile-line)# aim 5
Device(deploy-profile-line-5)# multicast us-tag translate 3
```

profile limit

To configure the IGMP snooping profile type as a permit or deny profile, use the **profile limit** command in the profile configuration mode.

profile limit { **permit** | **deny** }

Syntax Description

permit	Configures a list of groups that are permitted by the IGMP Snooping profile.
deny	Configures a list of groups that are denied by the IGMP Snooping profile.

Command Default

None

Command Modes

Profile configuration

Examples

The folloiwng example shows how to configure a permit type profile:

```
Device(config-igmp-profile-1)# profile limit permit
```

show igmp-snooping

To displays IGMP Snooping configurations, use the **show igmp-snooping** command in the EXEC mode.

show igmp-snooping

Syntax Description

igmp-snooping	Displays IGMP Snooping configurations.

Command Default

None

Command Modes

User EXEC
Privileged EXEC

Examples

The following example shows the output from **show igmp-snooping** command on an inteface where IGMP SNooping is enabled:

```
Device# show igmp-snooping
Enable IGMP-Snooping
Disable IGMP-Snooping report-suppression
The max response time is 10 second(s)
The host aging time is 300 second(s).
Disable IGMP-Snooping route-port forward
The Router port timeout is 300 second(s), Currently aging is running
Denied VLAN:
Black list:
NULL
White list:
NULL
Default group policy is permit
IGMP-Snooping Querier : ON
Querier vlan : 1
Querier Source IP 0.0.0.0 | Max Query Respond Time 10 sec | Query interval 60
sec | Igmp version 2
Port Information:
port  limit  action  fast-leave  mcast-vlan  igmp-profile  drop-type
p0/1  1024   drop    disabled    disabled    disabled      null
p0/2  1024   drop    disabled    disabled    disabled      null
p0/3  1024   drop    disabled    disabled    disabled      null
p0/4  1024   drop    disabled    disabled    disabled      null
p0/5  1024   drop    disabled    disabled    disabled      null
p0/6  1024   drop    disabled    disabled    disabled      null
p0/7  1024   drop    disabled    disabled    disabled      null
p0/8  1024   drop    disabled    disabled    disabled      null
e1/1  1024   drop    disabled    disabled    1             null
e1/2  1024   drop    disabled    disabled    disabled      null
e1/3  1024   drop    disabled    disabled    disabled      null
e1/4  1024   drop    disabled    disabled    disabled      null
e2/1  1024   drop    disabled    disabled    disabled      null
e2/2  1024   drop    disabled    disabled    disabled      null
```

show igmp-snooping profile

To display the details of an IGMP Snooping profile, use the **show igmp-snooping profile** command in the EXEC mode.

showigmp-snooping profile {*profile-id* | **interface** *port-id* | **vlan** *vlan-id*}

Syntax Description

profile-id	Displays the details of the particular IGMP Snooping profile
port-id	Displays the IGMP Snooping profile details for the port.
vlan-id	Displays the IGMP Snooping profile details for the VLANs.

Command Default

None

Command Modes

User EXEC
Privileged EXEC

Examples

The following example displays the output of the **show igmp-snooping profile** command:

```
Device# show igmp-snooping profile 1

IGMP-Snooping profile 1
Profile description :
Profile limit       : permit
Profile referred    : e1/1.
start-address        end-address          vlan
224.0.0.1            239.255.255.254      any
Total ip range: 1, mac range: 0

Total profiles: 1, IP&MAC ranges: 1
```

show igmp-snooping record-host

To display the MAC address of the record host, use the **show igmp-snooping record-host** command in the EXEC mode.

show igmp-snooping record-host [*interface-id*]

Syntax Description

record-host	Displays the MAC address of the record host.
interface-id	Displays the MAC address of the record host for the interface.

Command Default

None

Command Modes

User EXEC
Privileged EXEC

Examples

The following eample shows the output of the **show igmp-snooping record-host** command:

```
Device# show igmp-snooping record-host
show host record information
Total Record: 0
```

show igmp-snooping router-dynamic

To display the dynamic route ports, use the **show igmp-snooping router-dynamic** command in the EXEC mode.

show igmp-snooping router-dynamic

Syntax Description

router-dynamic	Displays the dynamic route ports.

Command Default

None

Command Modes

User EXEC
Privileged EXEC

Examples

The following example shows the output from **show igmp-snooping router-dynamic** command on an inteface where IGMP Snooping is enabled:

```
Device# show igmp-snooping router-dynamic
  Port        VID     Age       Type
  e1/3       100      237     { QUERY }
Total Record: 1
```

show igmp-snooping router-static

To display the static route ports on an interface or an a multicast VLAN, use the **show igmp-snooping router-static** command in the EXEC mode.

show igmp-snooping router-static [**interface** {**channel-group** *channel-group-id* | **ethernet** *port*} | **vlan** *vlan-id*]

Syntax Description

router-static	Displays the static router ports.
channel-group-id	Displays the static ports for a LACP channel group. The range is 0-5.
vlan-id	Displays the static ports for Multicast VLANs.

Command Default

None

Command Modes

User EXEC
Privileged EXEC

Examples

The following example shows the output from **show igmp-snooping router-static** command on an inteface where IGMP SNooping is enabled:

```
Device# show igmp-snooping router-static interface  channel-group  1
  Port        VID     Age       Type
Total Record: 0
```

show multicast igmp-snooping

To display igmp-snooping multicast table information, use the **show multicast igmp-snooping** command in the EXEC mode.

show multicast igmp-snooping {**interface***interface-id* | **ip-address** *ip-address*}

Syntax Description

interface-id	Displays the IGMP Snooping multicast table for the interface.
ip-address	Displays the IGMP Snooping multicast table for the IP address.

Command Default

None

Command Modes

User EXEC
Privileged EXEC

Examples

The following example displays the output of the **show multicast igmp snooping** command for an interface:

```
Device# show multicast igmp-snooping interface ethernet 1/1
show igmp-snooping multicast table information Total Record: 0
```

show ont multicast

To display information about the multicast learning table on an ONT, use the **show ont multicast** command in privileged EXEC or global configuration mode.

show ont multicast *slot-num/pon-num/ont-num* [**port** *port-id*]

Syntax Description

slot-num/pon-num/ont-num	The ONT ID. • *slot-num*: The slot number. The value is 0. • *pon-num*: The PON number. The range is from 1 to 8. • *ont-num*: The ONT number. The range is from 1 to 128.
port-id	The ONT Ethernet port ID. The range is from 1 to 24.

Command Modes

Privileged EXEC (#)

Global configuration (config)

Examples

This example shows how to view the information about the multicast learning table on an ONT.

```
Device> enable
Device# configure terminal
Device(config)# show ont multicast 0/1/1
```