IGMP Profile Configuration Mode Commands

The Internet Group Management Protocol (IGMP) Profile Configuration Mode is used to create and manage the IGMP parameters for an Ethernet interface.

**Command Modes**

Exec > Global Configuration > Context Configuration > IGMP Profile Configuration

configure > context context_name > ip igmp profile profile_name

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-igmp-profile-<profile_name>)#
```

**Important**

Available commands or keywords/variables vary based on platform type, product version, and installed license(s).

- default ip igmp, page 2
- end, page 3
- exit, page 4
- ip igmp query, page 5
- ip igmp require router-alert, page 6
- ip igmp robustness, page 7
- ip igmp unsolicited-report-interval, page 8
- ip igmp version, page 9
**default ip igmp**

Configures default IGMP parameters.

**Product**
All

**Privilege**
Security Administrator, Administrator

**Command Modes**
Exec > Global Configuration > Context Configuration > IGMP Profile Configuration

configure > context context_name > ip igmp profile profile_name

Entering the above command sequence results in the following prompt:

{context_name}host_name(config-igmp-profile-<profile_name>)#

**Syntax Description**
default ip igmp { query | require | robustness | unsolicited-report-interval | version }

**Usage Guidelines**
Specify the IGMP parameters for the default profile. Refer to the remaining command description in this chapter for additional information.

**Examples**
To apply enable echo mode on this interface, use the following command:

`bfd echo`
end

Exits the current configuration mode and returns to the Exec mode.

**Product**
All

**Privilege**
Security Administrator, Administrator

**Syntax Description**
end

**Usage Guidelines**
Use this command to return to the Exec mode.
exit

Exits the current mode and returns to the parent configuration mode.

Product

All

Privilege

Security Administrator, Administrator

Syntax Description

exit

Usage Guidelines

Use this command to return to the parent configuration mode.
ip igmp query

Configures the maximum response time for IGMP queries.

Product

All

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration > Context Configuration > IGMP Profile Configuration

configure > context context_name > ip igmp profile profile_name

Entering the above command sequence results in the following prompt:

/context_name/host_name(config-igmp-profile-<profile_name>)#

Syntax Description

ip igmp query max-response-time seconds

max-response-time seconds

Specify the maximum number of seconds that the system will wait for an IGMP response as an integer from 1 through 25.

Usage Guidelines

Specify the maximum response time for IGMP queries.

Examples

ip igmp query max-response-time 10
ip igmp require router-alert

Sets the router alert flag to ON in IP IGMP packets.

Product
All

Privilege
Security Administrator, Administrator

Command Modes
Exec > Global Configuration > Context Configuration > IGMP Profile Configuration
configure > context context_name > ip igmp profile profile_name

Entering the above command sequence results in the following prompt:
{context_name}host_name(config-igmp-profile-<profile_name>)#

Syntax Description
| no | ip igmp require router-alert

no
Sets the router alert flag to OFF in IP IGMP packets.

Usage Guidelines
Sets the router alert flag to ON in IP IGMP packets.

Examples
ip igmp require router-alert
ip igmp robustness

Sets the Robustness value in IP IGMP packets. The Robustness variable allows tuning for the expected packet loss on a subnet. If a subnet is expected to be lossy, the Robustness variable may be increased. IGMP is robust to packet losses. The Robustness variable should not be set to 1 (one).

**Product**
All

**Privilege**
Security Administrator, Administrator

**Command Modes**
Exec > Global Configuration > Context Configuration > IGMP Profile Configuration
configure > context context_name > ip igmp profile profile_name

Entering the above command sequence results in the following prompt:
$(context_name)host_name(config-igmp-profile=<profile_name>)#

**Syntax Description**

ip igmp robustness  value

**value**
Sets the robustness value as an integer from 1 through 10. Default: 2

**Usage Guidelines**
Sets the robustness value in IP IGMP packets.

**Examples**

ip igmp robustness 7
ip igmp unsolicited-report-interval

Sets the Unsolicited Report Interval which is the time between repetitions of a host's initial report of membership in a group.

Product
All

Privilege
Security Administrator, Administrator

Command Modes
Exec > Global Configuration > Context Configuration > IGMP Profile Configuration
configure > context context_name > ip igmp profile profile_name

Entering the above command sequence results in the following prompt:

\[(context_name)host_name(config-igmp-profile-<profile_name>)#\]

Syntax Description
ip igmp unsolicited-report-interval *seconds*

*seconds*
Specifies the number of seconds between repetitions of a host's initial report of membership in a group as an integer from 1 through 25. Default: 10

Usage Guidelines
Set the Unsolicited Report Interval which is the time between repetitions of a host's initial report of membership in a group.

Examples
ip igmp unsolicited-report-interval 15
**ip igmp version**

Sets the IGMP version to be supported by this interface.

**Product**

All

**Privilege**

Security Administrator, Administrator

**Command Modes**

`Exec > Global Configuration > Context Configuration > IGMP Profile Configuration`

`configure > context context_name > ip igmp profile profile_name`

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-igmp-profile-<profile_name>)#`
```

**Syntax Description**

```
ip igmp version { v1 | v2 | v3 }
```

- **v1 | v2 | v3**
  
  Specifies the IGMP Version number:
  
  - **v1**: Version 1, RFC 1112
  - **v2**: Version 2, RFC 2236
  - **v3**: Version 3, RFC 4604

**Usage Guidelines**

Set the IGMP version to be supported by this interface.

**Examples**

```
ip igmp version v2
```
ip igmp version