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