iSCI QoS Commands

This chapter contains the following sections:

iscsi enable

To enable applying the quality of service profile to Internet Small Computer System Interface (iSCSI) flows, use the **iscsi enable** command in Global Configuration mode. To restore the default configuration, use the **no** form of the command.

Syntax

iscsi enable

no iscsi enable

Parameters

This command has no arguments or keywords

Default Configuration

Disabled

Command Mode

Global Configuration mode

User Guidelines

Use the **iscsi enable** command to enable the iSCSI QoS.

If an ACL is bounded on an interface and a frame matches both to the iSCLI and the ACL rules then only the iSCSI rules are applied to this frame.

Example

The following example enables iSCSI QoS globally:

```
switchxxxxxx(config)# iscsi enable
```

iscsi flow

To define an iSCSI flow, use the **iscsi flow** command in Global Configuration mode. To remove the iSCSI flow, use the **no** form of the command.

Syntax

iscsi flow default | {*tcp-port* [*ip-address*]}

no iscsi flow [default | {*tcp-port* [*ip-address*]}]

Parameters

- **default**—Restores the default IPv4 flows.
- ***tcp-port***—Specifies the TCP port number on which iSCSI targets listen to requests. (Range: 1–65535)
- ***ip-address***—Specifies the IPv4 address on which iSCSI targets listen to requests.

Default Configuration

Two iSCSI IPv4 flows with well-known TCP ports 3260 and 860.

Command Mode

Global Configuration mode

User Guidelines

Each **iscsi flow** command defines an iSCSI flow including the following two sub-flows:

- From initiator to target sub-flow—The sub-flow is classified by the Destination TCP port defined by the *tcp-port* argument and by the configured Destination IP address, if the *ip-address* argument is configured.
- From target to initiator sub-flow—The sub-flow is classified by the Source TCP port defined by the *tcp-port* argument and by the configured Source IP address, if the *ip-address* argument is configured.

Up to 8 iSCSI flows are supported.

Use the **iscsi flow default** command, to restore the iSCSI default configuration.

For the same TCP port you can use either the **iscsi flow** *tcp-port* command or a few **iscsi flow** *tcp-port ip-address* commands with different IP addresses.

Use the **no iscsi flow** *tcp-port ip-address* command, to delete the iSCSI flows defined by the **iscsi target port** *tcp-port ip-address* command.

Use the **no iscsi flow** *tcp-port* command, to delete the iSCSI flows defined by the **iscsi flow** *tcp-port* command.

To delete a default iSCSI flow, use the **no iscsi flow** *tcp-port* command.

To delete all default iSCSI flows, use the **no iscsi flow default** command.

To delete all iSCSI flows (including the default ones), use the **no iscsi flow** command.

Example

The following example defines four pair of iSCSI flows:

```
switchxxxxxx(config)# no iscsi flow default
switchxxxxxx(config)# iscsi flow 1200
switchxxxxxx(config)# iscsi flow 1201 1.1.1.1
switchxxxxxx(config)# iscsi flow 1201 1.1.1.10
switchxxxxxx(config)# iscsi flow 1201 101.12.21.410
```

iscsi qos

To define the quality of service profile applying to iSCSI flows, use the **iscsi qos** command in Global Configuration mode. To restore the default configuration, use the **no** form of the command.

Syntax

iscsi qos {[**vpt** *vpt*] [**dscp** *dscp*] [**queue** *queue*]}

no iscsi qos

Parameters

- **vpt** *vpt*—Specifies a value of the VLAN Priority Tag (VPT) that iSCSI tagged frames are assigned (Range: 0–7).
- **dscp** *dscp*—Specifies the Differentiated Services Code Point (DSCP) that iSCSI frames are assigned. (Range: 0–63).
- **queue** *queue*—Specify the outgoing queue that iSCSI frames are sent (Range: 1–8).

Default Configuration

- VPT is not changed.
- DSCP is not changed.
- Queue—7

Command Mode

Global Configuration mode

User Guidelines

Use the **iscsi qos** command, to change the default quality of service profile applying to iSCSI flows.

Note. At least one parameter is mandatory

Example

The following example configures the default quality of service profile applying to iSCSI flows:

```
switchxxxxxx(config)# iscsi qos vpt 6 queue 8
```

show iscsi

To display the iSCSI configuration, use the **show iscsi** command in User EXEC mode.

Syntax

show iscsi

Parameters

This command has no arguments or keywords

Default Configuration

This command has no default settings.

Command Mode

User EXEC mode

Example

This example shows how to display the iSCSI configuration:

```
switchxxxxxx> show iscsi
iSCSI is enabled
iSCSI vpt is not changed
iSCSI DSCP is 18
iSCSI Queue is 7 (default)
iSCSI Flows:
  TCP         Target IP
  Port        Address
---------  ---------------
   860     0.0.0.0            default
  3260     0.0.0.0            default
  9876     0.0.0.0
  20002    192.111.220.110
  20002    192.1.3.230
  25555    0.0.0.0
```