Quality of Service Device Manager Command-Line Interface Commands

This feature module describes the Quality of Service Device Manager (QDM) command-line interface (CLI) commands. It includes information on the benefits of the commands, supported platforms, related documents, and so forth.

This document contains the following sections:

Feature Overview

This feature module documents the commands specific to Quality of Service Device Manager (QDM) functionality. These CLI commands are not related to QoS management, but are designed to help manage the QDM clients themselves. All QoS-related configuration and monitoring are performed in the Java-enabled QDM application.

The QDM command line interface options are designed to complement the Java-enabled QDM application. These CLI commands perform the following tasks: displaying the status of QDM applications, disconnecting a QDM client, and sending text messages from a router to one or more QDM clients. Each of these tasks is performed by a different CLI command.

For additional information on QDM, see the *Installation and Release Notes for Cisco Quality of Service Device Manager 1.0* on Cisco Connection Online (CCO) or the Documentation CD-ROM.

Related Features and Technologies

- Quality of Service (QoS)

Related Documents

- *Release and Installation Notes for Cisco Quality of Service Device Manager 1.0*

Supported Platforms

These commands are available on all platforms that have an enabled QDM application. QDM is currently available on the following platforms:

- Cisco 7100
- Cisco 7200
- Cisco 7500 with a Versatile Interface Processor (VIP)

Supported Standards, MIBs, and RFCs

Standards

No new or modified standards are supported by this feature.

MIBs

No new or modified MIBs are supported by this feature.

RFCs

No new or modified RFCs are supported by this feature.

Prerequisites

The QDM application must be loaded on your router. For information on installing the QDM application, see the *Release and Installation Notes for Cisco Quality of Service Device Manager 1.0* on CCO and the Documentation CD-ROM.

Using the Quality of Service Device Manager Command Line Interface Commands

The QDM CLI commands perform the following tasks:

- Disconnecting QDM
- Sending a Text Message to QDM Clients
- Verifying the Status of Connected QDM Clients

Disconnecting QDM

Use the **disconnect qdm** [**client** *client-id*] EXEC command to disconnect a QDM client.

Command	Purpose
Router# **disconnect qdm**	Disconnects all QDM clients.
Router# **disconnect qdm** [**client** *client-id*]	Disconnects a specific QDM client.

Sending a Text Message to QDM Clients

Use the **send qdm** [**client** *client-id*] **message** *message-text* EXEC command to send a text message from a router to a QDM client. This text message will appear in a popup window in the Java user interface of the QDM application.

Command	Purpose
Router# **send qdm message** *message-text*	Sends a text message to all QDM clients.
Router# **send qdm** [**client** *client-id*] **message** *message-text*	Sends a text message to a specific QDM client.

Verifying the Status of Connected QDM Clients

Use the **show qdm status** command to verify the status of the connected QDM clients.

Command	Purpose
Router# **show qdm status**	Displays the status of connected QDM clients.

Monitoring and Maintaining Quality of Service Command Line Interface Commands

Verifying That a QDM Message Was Sent

After you enter the **send qdm message** command, the router sending the message cannot confirm that the message was sent. The only way to confirm that the message was received is to check the QDM application on the receiver's workstation for the message.

Verifying That a QDM Client Is Disconnected

After you enter the **disconnect qdm** command, the following message should appear in the Java user interface of the disconnect client:

```
HH:MM Router connection: disconnected on user request
```

To verify that the **disconnect qdm** command successfully disconnected the QDM client, enter the **show qdm status** command from a client connected to the router and confirm that the disconnected client is no longer listed as connected.

Configuration Examples

This section provides the following configuration examples:

- Disconnecting QDM
- Sending a Text Message to a QDM Client
- Verifying the Status of Connected QDM Clients

Disconnecting QDM

Use the **disconnect qdm** [**client** *client-id*] command to disconnect a QDM client from a router. In the following example, the QDM Client with ID 42 is disconnected from the router:

```
Router# disconnect qdm client 42
```

To disconnect all QDM clients connected to the router, use the **disconnect qdm** command. In the following example, all QDM clients on the router are disconnected:

```
Router# disconnect qdm
```

Sending a Text Message to a QDM Client

Use the **send qdm message** command to send a text message from a router to a QDM client. After you enter the **send qdm** command, a popup window displaying the text message appears in the user interface of the QDM client receiving the message.

In the following example, the text message "hi bob" is sent to QDM client 4:

```
Router# send qdm client 4 message hi bob
```

In this example, the text message "hi all" is sent to all QDM clients connected to the router:

```
Router# send qdm message hi all
```

Verifying the Status of Connected QDM Clients

Use the **show qdm status** command to verify the status of connected QDM clients.

In the following example, QDM is configured on two clients, client IDs 30 and 29:

```
Router% show qdm status
Number of QDM Clients :2
QDM Client v1.0(0.13)-System_1 @ 172.16.0.0 (id:30)
     connected since 09:22:36 UTC Wed Mar 15 2000
QDM Client v1.0(0.12)-System_2 @ 172.31.255.255 (id:29)
     connected since 17:10:23 UTC Tue Mar 14 2000
```

Command Reference

This section documents new or modified commands. All other commands used with this feature are documented in the Cisco IOS Release 12.1 command reference publications.

show qdm status

To view the status of the QDM clients connected to the router, use the **show qdm status** EXEC command:

show qdm status

Syntax Description   This command has no arguments or keywords.

Defaults   No default behavior or values.

Command Modes   EXEC

Command History

Release	Modification
Release 12.1(1)E	This command was introduced.

Usage Guidelines   Use the **show qdm status** command to obtain the following information:

- Number of connected QDM clients
- Client IDs of the connected QDM clients
- Version of the QDM client software
- IP addresses of the connected QDM clients

Examples   The following example illustrates the **show qdm status** output when two QDM clients are connected to the router:

```
Router% show qdm status
Number of QDM Clients :2
QDM Client v1.0(0.13)-System_1 @ 172.16.0.0 (id:30)
      connected since 09:22:36 UTC Wed Mar 15 2000
QDM Client v1.0(0.12)-System_2 @ 172.31.255.255 (id:29)
      connected since 17:10:23 UTC Tue Mar 14 2000
```

Related Commands

Command	Description
disconnect qdm	Disconnects all QDM clients.
disconnect qdm [**client** *client-id*]	Disconnects a specific QDM client.

disconnect qdm

To disconnect a QDM client, use the **disconnect qdm** EXEC command.

> **disconnect qdm** [**client** *client-id*]

Syntax Description

client	Specifies that a specific QDM client will be disconnected.
client-id	Specifies the specific QDM identification number to disconnect.

Defaults

No default behavior or values.

Command Modes

EXEC

Command History

Release	Modification
Release 12.1(1)E	This command was introduced.

Usage Guidelines

Use the **disconnect qdm** command to disconnect all QDM clients that are connected to the router.

Use the **disconnect qdm** [**client** *client-id*] command to disconnect a specific QDM client connected to a router. For instance, using the **disconnect qdm client 42** command will disconnect the QDM client with the ID 42.

Examples

The following example shows how to disconnect all connected QDM clients:

```
Router# disconnect qdm
```

The following example shows how to disconnect a specific QDM client with client ID 9.

```
Router# disconnect qdm client 9
```

Related Commands

Command	Description
show qdm status	Displays the status of connected QDM clients.

send qdm message

To send a text message to all QDM clients, use the **send qdm** EXEC command.

> **send qdm** [**client** *client-id*] **message** *message-text*

Syntax Description

client	Specifies that a specific QDM client will receive the message.
client-id	Specifies the specific QDM identication of the client that will receive the text message.
message	Specifies that a message will be sent.
message-text	The actual text of the message.

Defaults

No default behavior or values.

Command Modes

EXEC

Command History

Release	Modification
Release 12.1(1)E	This command was introduced.

Usage Guidelines

Use the **send qdm** [**client** *client-id*] **message** *message-text* to send a message to a specific QDM client. For example, **entering the send qdm client 9 message hello** command will send the message "hello" to client ID 9.

Use the **send qdm message** *message-text* command to send a message to all QDM clients. For example, entering the **send qdm message hello** command sends the message "hello" to all open QDM clients.

Examples

The following example sends the text message "how are you?" to client ID 12:

```
send qdm client 12 message how are you?
```

The following example sends the text message "how is everybody?" to all QDM clients connected to the router:

```
send qdm message how is everybody?
```

Related Commands

Command	Description
show qdm status	Displays the status of connected QDM clients.

Glossary

Quality of Service Device Manager (QDM)—a browser-based application that runs from Java. QDM allows users to configure and monitor advanced IP-based Quality of Service (QoS) functionality within Cisco routers.