



CHAPTER 12

Viewing Administrative Information from the Web Interface

To access the Administrative page of the MWTM web interface, click **Administrative** in the navigation tree in the left pane. The right pane displays the following tabs:

- General
- SNMP
- Credentials
- Discovery
- User Management

This chapter contains:

- [Viewing General Tab Details, page 12-1](#)
- [Viewing SNMP Tab Details, page 12-20](#)
- [Viewing Credentials Tab Details, page 12-22](#)
- [Viewing Discovery Tab Details, page 12-25](#)
- [Viewing User Management Tab Details, page 12-30](#)



Note

If MWTM User-Based Access is enabled, only users with authentication level 3 (Network Operator) and higher can see all options. Users of all other levels see only the System Information and System Status panes (except License Information and Chassis Inventory (7600/SAMI) Report).

Viewing General Tab Details

The MWTM web interface **General** tab provides access to MWTM system information, including messages, logs, status, and properties. To view the General tab information, click **Administrative** in the navigation tree and then click **General** tab in the right pane. This tab displays the information indicated in the following table.

| Pane | GUI Elements | Description | Reference |
|--------------------|--|---|---|
| System Information | <ul style="list-style-type: none"> • README • CHANGES • <i>(ITP only)</i> ITP OS README • <i>(IPRAN only)</i> IP-RAN OS README • <i>(mSEF, CSG1 only)</i> Content Service Gateway 1 (CSG1) OS README • <i>(mSEF, CSG2 only)</i> Content Service Gateway 2 (CSG2) OS README • <i>(mSEF, GGSN only)</i> Gateway GPRS Service Node (GGSN) OS README • <i>(mSEF, HA only)</i> Home Agent (HA) OS README • <i>(mSEF, BWG only)</i> Broadband Wireless Gateway (BWG) OS README • <i>(PDSN only)</i> Packet data Serving Node (PDSN) OS README • Export Reports README • MWTM Supported SNMP MIBs | <ul style="list-style-type: none"> • <i>README.txt</i> file • Major new changes for the release • <i>MWTM-OS-Info-ITP</i> file • <i>MWTM-OS-Info-IPRAN</i> file • <i>MWTM-OS-Info-CSG1</i> file • <i>MWTM-OS-Info-CSG2</i> file • <i>MWTM-OS-Info-GGSN</i> file • <i>MWTM-OS-Info-HA</i> file • <i>MWTM-OS-Info-BWG</i> file • <i>MWTM-OS-Info-PDSN</i> file • Lists of MIBs, which may include: <ul style="list-style-type: none"> – <i>(IPRAN only)</i> RAN MIBs – <i>(ITP only)</i> ITP MIBs – <i>(mSEF only)</i> CSG1 MIBs – <i>(mSEF only)</i> CSG2 MIBs – <i>(mSEF only)</i> GGSN MIBs – <i>(mSEF only)</i> BWG MIBs – <i>(mSEF only)</i> HA MIBs – <i>(PDSN only)</i> PDSN MIBs – Common MIBs | For details, see Viewing MWTM System Information, page 12-4 . |
| System Messages | <ul style="list-style-type: none"> • Info Messages • Error Messages • User Actions • Message Archives • Console Log Archives | Shows tabular information about different types of system messages. | For details, see Viewing System Messages, page 12-5 . |

| Pane | GUI Elements | Description | Reference |
|---------------|---|--|--|
| System Status | <ul style="list-style-type: none"> System Status System Versions System Check Connected Clients License Information Chassis Inventory (7600/SAMI) Report | Shows the output of these system commands: <ul style="list-style-type: none"> mwtm status mwtm version sgmCheckSystemLog.txt mwtm who mwtm licenseinfo mwtm chassisinventory | For details, see Viewing System Status Information, page 12-10 . |
| System Logs | <ul style="list-style-type: none"> Install Log Console Log Command Log Event Automation Log Security Log Web Access Log Web Error Log Report Log Report Timers | Shows the contents of these system logs: <ul style="list-style-type: none"> <i>sgmConsoleLog.txt</i> <i>sgmCommandLog.txt</i> <i>eventAutomationLog.txt</i> <i>sgmSecurityLog.txt</i> <i>cisco_sgmsvr_install.log</i> <i>access_log</i> <i>error_log</i> <i>sgmReportLog.txt</i> | For details, see Viewing System Logs, page 12-12 . |
| Properties | <ul style="list-style-type: none"> System Server WebConfig Reports Trap Forwarding | Shows the contents of these system property files: <ul style="list-style-type: none"> <i>System.properties</i> <i>Server.properties</i> <i>WebConfig.properties</i> <i>Reports.properties</i> <i>TrapForwarder.properties</i> | For details, see Viewing System Properties, page 12-15 . |

The General tab displays the following:

- [Viewing MWTM System Information, page 12-4](#)
- [Viewing System Messages, page 12-5](#)
- [Viewing System Status Information, page 12-10](#)
- [Viewing System Logs, page 12-12](#)
- [Viewing Properties, page 12-15](#)

Viewing MWTM System Information

Depending upon which type(s) of network you are managing, you can view the following MWTM system information from the MWTM web interface by clicking **Administrative** in the navigation tree in the left pane and then clicking **General** tab in the right pane:

- **README**—Shows the contents of the `/opt/CSCOSgm/install/README.txt` file. This file provides a brief overview of the system requirements and the tasks that are necessary to install this software release.

To access the MWTM README page, choose **README** from the **Administrative** page.

- **CHANGES**—Lists the major new features for the release.
- *(ITP only)* **ITP OS README**—Shows the contents of the `/opt/CSCOSgm/install/MWTM-OS-Info-ITP` file. This file contains a list of the supported OS software images for:
 - ITP nodes
 - GTT encoding scheme
 - MLR address table configuration
 - GTT accounting statistics reports
 - Route table and GTT table deployment
 - MSU rates
 - ITP provisioning

To access the MWTM ITP OS README page, choose **ITP OS README** from the **Administrative** page.

- *(IPRAN only)* **IPRAN OS README**—Shows the contents of the `/opt/CSCOSgm/install/MWTM-OS-Info-IPRAN` file. This file contains a list of the supported OS software images for:
 - MWR nodes
 - ONS nodes
 - RAN SVC cards

To access the MWTM IPRAN OS README page, choose **IPRAN OS README** from the **Administrative** page.

- *(mSEF, CSG1 only)* **CSG1 OS README**—Shows the contents of the `/opt/CSCOSgm/install/MWTM-OS-Info-CSG1` file. This file contains a list of the supported OS software images for CSG1.

To access the MWTM CSG1 OS README page, choose **CSG1 OS README** from the **Administrative** page.

- *(mSEF, CSG2 only)* **CSG2 OS README**—Shows the contents of the `/opt/CSCOSgm/install/MWTM-OS-Info-CSG2` file. This file contains a list of the supported OS software images for CSG2.

To access the MWTM CSG2 OS README page, choose **CSG2 OS README** from the **Administrative** page.

- *(mSEF, GGSN only)* **GGSN OS README**—Shows the contents of the `/opt/CSCOSgm/install/MWTM-OS-Info-GGSN` file. This file contains a list of the supported OS software images for GGSN.

To access the MWTM GGSN OS README page, choose **GGSN OS README** from the **Administrative** page.

- (*mSEF, HA only*) **HA OS README**—Shows the contents of the `/opt/CSCOSgm/install/MWTM-OS-Info-HA` file. This file contains a list of the supported OS software images for HA.

To access the MWTM HA OS README page, choose **HA OS README** from the **Administrative** page.

- (*PDSN only*) **PDSN OS README**—Shows the contents of the `/opt/CSCOSgm/install/MWTM-OS-Info-PDSN` file. This file contains a list of the supported OS software images for PDSN.
- **Export Reports README**—Shows the contents of the `/opt/CSCOSgm/install/README-ExportReports.txt` file. This file contains a list of the formats for the export files.
- (*mSEF, BWG only*) **BWG OS README**—Shows the contents of the `/opt/CSCOSgm/install/MWTM-OS-Info-BWG` file. This file contains a list of the supported OS software images for BWG.

To access the MWTM BWG OS README page, choose **BWG OS README** from the **Administrative** page.

- **MWTM Supported SNMP MIBs**—Shows a list of the MIBs (categorized by product type) on the server to which you are connected, and which is currently running the MWTM.

Each MIB appears in a list as a clickable link. You can open or download the contents of the MIB by clicking the MIB name. See [Appendix F, “MIB Reference,”](#) for a complete list and high-level description of each supported MIB.

To access the MIBs page, choose **MIBs** from the **Administrative** page of the MWTM web interface.

Viewing System Messages

You can view the following MWTM system messages from the MWTM web interface by clicking **Administrative** in the navigation tree in the left pane and then clicking **General** tab in the right pane:



Note

These messages are related to the MWTM system itself, not to your network.

- [Viewing Info Messages, page 12-5](#)
- [Viewing All Archived MWTM Messages, page 12-9](#)
- [Viewing MWTM User Action Messages, page 12-7](#)
- [Viewing All Archived MWTM Messages, page 12-9](#)

Viewing Info Messages

You can view info messages by clicking **Administrative > General > Info Messages**, or **Info** from the web page menu bar, if visible.

The System Messages: Last *number* Info Messages page shows informational messages in the MWTM system log. These messages can be useful when diagnosing and correcting MWTM operational problems.

The Last Info Messages table contains:

| Column | Description |
|---------------------------|--|
| Period (in heading) | Collection period of the table, such as <i>Since Server Restart</i> . |
| Timestamp (in heading) | Date and time the MWTM last updated the information on the page. |
| Row | Unique number identifying each entry in the table. You cannot edit this field. |
| Time | Date and time the message was logged. To sort the messages by time, click the Time heading. |
| Source | Source for the message, with the format <i>process.host.id</i> , where: <ul style="list-style-type: none"> <i>process</i> is the process that logged the message. <i>host</i> is the hostname of the process that logged the message. <i>id</i> is an MWTM ID that uniquely identifies the process that logged the message; or in the event that two or more clients are running on the same node, connected to the same MWTM server. |
| Task | Task, or thread, that logged the message. |
| Message | Text of the message. To sort the messages alphabetically by message text, click the Message heading. |

Viewing Error Messages

The System Messages: Last *number* Error Messages page shows error messages stored in the MWTM system log. These messages can be useful when diagnosing and correcting MWTM operational problems.

To access this page, click:

- **Administrative > General > Error Messages.**
- **Error** from the web page menu bar, if visible.

The Last Error Messages table contains:

| Column | Description |
|---------------------------|--|
| Period (in heading) | Collection period of the table, such as <i>Since Server Restart</i> . |
| Timestamp (in heading) | Date and time the MWTM last updated the information on the page. |
| Row | Unique number identifying each entry in the table. You cannot edit this field. |
| Time | Date and time the message was logged. To sort the messages by time, click the Time heading. |

| Column | Description |
|---------|--|
| Source | Source for the message, with the format <i>process.host.id</i> , where: <ul style="list-style-type: none"> <i>process</i> is the process that logged the message. <i>host</i> is the hostname of the process that logged the message. <i>id</i> is an MWTM ID that uniquely identifies the process that logged the message; or in the event that two or more clients are running on the same node, connected to the same MWTM server. |
| Task | Task, or thread, that logged the message. |
| Message | Text of the message. To sort the messages alphabetically by message text, click the Message heading. |

Viewing MWTM User Action Messages

The System Messages: Last *number* Action Messages page shows user action messages stored in the MWTM system log. These messages can be useful when diagnosing and correcting MWTM operational problems, and when monitoring audit trails of user actions.

To access this page, use one of these procedures. Click:

- **Administrative > General > User Actions.**
- **Action** from the web page menu bar, if visible.

The MWTM shows the System Messages: Last *number* Action Messages page. The System Messages: Last *number* Action Messages page has these sections:

- [Last Action Messages Menu, page 12-7](#)
- [Last Action Messages Table, page 12-8](#)

Last Action Messages Menu

By default, the MWTM shows action messages of all classes on the System Messages: Last *number* Action Messages page. However, the MWTM provides menu options that enable you to display only messages of a specific class on the page.

The Last Action Messages menu contains:

| Column | Description |
|----------------|---|
| Create | Opens the System Messages: Last <i>number</i> Action: specified web page: |
| Delete | <ul style="list-style-type: none"> • Create—Opens the Create Messages web page, showing only Create action messages. |
| Discover | <ul style="list-style-type: none"> • Delete—Opens the Delete Messages web page, showing only Delete action messages. |
| Edit | <ul style="list-style-type: none"> • Discover—Opens the Discover Messages web page, showing only Discover action messages. |
| Ignore | <ul style="list-style-type: none"> • Edit—Opens the Edit Messages web page, showing only Edit action messages. |
| OverWrite | <ul style="list-style-type: none"> • Ignore—Opens the Ignore Messages web page, showing only Ignore action messages. |
| Poll | <ul style="list-style-type: none"> • OverWrite—Opens the OverWrite Messages web page, showing only OverWrite action messages. |
| Purge | <ul style="list-style-type: none"> • Poll—Opens the Poll Messages web page, showing only Poll action messages. |
| LogInOut | <ul style="list-style-type: none"> • Purge—Opens the Purge Messages web page, showing only Purge action messages. |
| All | <ul style="list-style-type: none"> • LogInOut—Opens the LogInOut Messages web page, showing only Log in and Log out action messages. |
| LaunchTerminal | <ul style="list-style-type: none"> • All—Opens a web page that shows all action messages. |
| Provision | <ul style="list-style-type: none"> • LaunchTerminal—Opens a web page showing all Launch Terminal messages. • Provision—Opens a web page that shows all provisioning messages. |

Last Action Messages Table

The Last Action Messages table contains:

| Column | Description |
|---------------------------|--|
| Period (in heading) | Collection period of the table, such as <code>Since Server Restart</code> . |
| Timestamp (in heading) | Date and time the information on the page was last updated by the MWTM. |
| Row | Unique number identifying each entry in the table. You cannot edit this field. |
| Time | Date and time the message was logged. To sort the messages by time, click the Time heading. |

| Column | Description |
|---------|--|
| Class | <p>Class of the message. Possible classes are:</p> <ul style="list-style-type: none"> • Create—Creation event, such as the creation of a seed file. • Delete—Deletion event, such as the deletion of an object or file. • Discover—Discovery event, such as Discovery beginning. • Edit—Edit event. A user has edited an object. • Ignore—Ignore event. A user has flagged a link or linkset as Ignored. • Login—Login event. A user has logged in to the MWTM. • LoginDisable—LoginDisable event. The MWTM has disabled a user's User-Based Access authentication as a result of too many failed attempts to log in to the MWTM. • LoginFail—LoginFail event. An attempt by a user to log in to the MWTM has failed. • Logout—Logout event. A user has logged out of the MWTM. • OverWrite—OverWrite event. An existing file, such as a seed file or route file, has been overwritten. • Poll—Poll event, such as an SNMP poll. • Purge—Purge event. A user has requested Discovery with Delete Existing Data chosen, and the MWTM has deleted the existing MWTM database. <p>To sort the messages by class, click the Class heading.</p> |
| Message | <p>Text of the message.</p> <p>To sort the messages alphabetically by message text, click the Message heading.</p> |

Viewing All Archived MWTM Messages

The System Message Archives: All Messages page shows all archived messages in the MWTM system logs, including:

- error
- informational
- trace
- debug
- dump
- messages
- SNMP

To access the System Message Archives: All Messages page, use one of these options. Click:

- **Administrative > General > Message Archives.**
- **Archives** from the web page menu bar, if visible.

On the System Message Archives: All Messages page, messages are archived by timestamp. Each archived file contains all MWTM system messages for a single session for the server to which you are connected, and which is currently running the MWTM server. (If you restart the server, the MWTM creates a new file.)

To view archived messages, click a timestamp. The System Messages Archive: Last *number* All Messages page appears, which shows all messages that were in the system log at the specified timestamp.

**Note**

You might observe an entry labeled *messageLog-old* among a list of files that have timestamps in the filenames. A daily cron job creates the files with the timestamps. The cron job, which runs at midnight, searches through the *messageLog.txt* and *messageLog-old.txt* files for all entries from the past day. The *messageLog-old.txt* file exists only if the size of *messageLog.txt* exceeds the limit set by the [mwtm logsize](#) command. The MWTM lists the contents of *messageLog-old.txt* because it could contain important data from the day the message log file rolled over.

The Last All Messages table contains this information (without column headers):

| Description | Information |
|-------------|---|
| Index | Message number that the MWTM assigns to the message. |
| Time | Date and time the message was logged. |
| Type | Type of message. Possible types are: <ul style="list-style-type: none"> • Action • Debug • Dump • Error • Info • SNMP • Trace |
| Source | Source for the message, with the format <i>process.host.id</i> , where: <ul style="list-style-type: none"> • <i>process</i> is the process that logged the message. • <i>host</i> is the hostname of the process that logged the message. • <i>id</i> is an MWTM ID that uniquely identifies the process that logged the message; or, in the event that two or more clients are running on the same node, connected to the same MWTM server. |
| Task | Task, or thread, that logged the message. |
| Message | Text of the message. |

Viewing System Status Information

You can view the MWTM system status information from the MWTM web interface by clicking **Administrative** in the navigation tree in the left pane and then clicking **General** tab in the right pane:

- [Viewing System Status, page 12-11](#)
- [Viewing System Versions, page 12-11](#)
- [Viewing System Check, page 12-11](#)
- [Viewing Connected Clients, page 12-11](#)
- [Viewing License Information, page 12-11](#)
- [Viewing Chassis Inventory \(7600/SAMI\) Report, page 12-11](#)

Viewing System Status

To access system status information, click **Administrative > General > System Status**. (The MWTM might take a few seconds to display this page.) This page shows the status of all MWTM servers, local clients, and processes.

Viewing System Versions

To access version information, click **Administrative > General > System Versions**. (The MWTM might take a few seconds to display this page). This page shows version information for all MWTM servers, clients, and processes.

Viewing System Check

To access system information, click **Administrative > General > System Check**. MWTM displays the output from the following command:

```
/opt/CSCOSgm/logs/sgmCheckSystemLog.txt
```

Viewing Connected Clients

To access connected client information, click **Administrative > General > Connected Clients**. This page lists all MWTM clients that are currently connected to the MWTM server. It also lists all Solaris and Linux users that are logged in to the MWTM server.

Viewing License Information

To access license information and to verify license compliance, click **Administrative > General > License Information**.

MWTM displays the output from the following command:

```
/opt/CSCOSgm/bin/mwtm licenseinfo
```

When you select **Administrative > License Information**, MWTM displays the number of devices and cards that are managed by the MWTM software. For example, for an mSEF network, MWTM displays the number of 7600, 7300, and 7200 devices in addition to the number of SAMI cards. For ITP networks, MWTM displays the number of 7600, including the number of different types of cards on the 7600 device, 7300, 7200, and 2800 devices.



Note

Viewing Chassis Inventory (7600/SAMI) Report

To access chassis inventory (7600/SAMI) report information, click **Administrative > General > Chassis Inventory (7600/SAMI) Report**.

MWTM displays the output from the following command:

```
/opt/CSCOSgm/bin/mwtm chassisinventory
```

Viewing System Logs

You can view the MWTM system logs information from the MWTM web interface by clicking **Administrative** in the navigation tree in the left pane and then clicking **General** tab in the right pane:

- [Viewing the Install Log, page 12-12](#)
- [Viewing the Console Log, page 12-12](#)
- [Viewing the Command Log, page 12-12](#)
- [Viewing the Event Automation Log, page 12-13](#)
- [Viewing the Security Log, page 12-13](#)
- [Viewing the Install Log, page 12-14](#)
- [Viewing the Web Access Logs, page 12-14](#)
- [Viewing the Web Error Logs, page 12-14](#)
- [Viewing the Report Log, page 12-15](#)
- [Viewing the Report Timers, page 12-15](#)

Viewing the Install Log

The Install Log shows the contents of the MWTM installation log file for the server to which you are connected, and which is currently running the MWTM.

To access the Install Log, click **Administrative > General > Install Log**. You can also view the Console Log with the `mwtm installlog` command.

Viewing the Console Log

The Console Log shows the contents of the MWTM system console log file for the server to which you are connected, and which is currently running the MWTM. The console log file contains unexpected error and warning messages from the MWTM server, such as those that might occur if the MWTM server cannot start. It also provides a history of start-up messages for server processes and the time each message appeared.

To access the Console Log, click **Administrative > General > Console Log**. You can also view the Console Log with the `mwtm console` command.

Viewing the Command Log

The Command Log shows the contents of the MWTM system command log file for the server to which you are connected, and which is currently running the MWTM server. The system command log lists all **mwtm** commands that have been entered for the MWTM server, the time each command was entered, and the user who entered the command.

To access the Command Log, click **Administrative > General > Command Log**. You can also view the Command Log with the `mwtm cmdlog` command.

The MWTM Command Log page appears. The Command Log table contains:

| Column | Description |
|-----------|---|
| Timestamp | Date and time the command was logged. To sort the messages by time, click the Timestamp heading. |
| User Name | User who entered the command. To sort the commands by user, click the User heading. |
| Command | Text of the command. To sort the messages alphabetically by command text, click the Command heading. |

Viewing the Event Automation Log

The Event Automation Log shows the contents of the system event automation log file for the server to which you are connected, and which is currently running the MWTM server. The system event automation log lists all messages that event automation scripts generate.

The default path and filename for the system event automation log file is */opt/CSCOs/gm/logs/eventAutomationLog.txt*. If you installed the MWTM in a directory other than */opt*, then the system event automation log file is in that directory.

To access the Event Automation Log, click **Administrative > General > Event Automation Log**. You can also view the Event Automation Log with the `mwtm eventautolog` command.

Related Topic

[Changing the Way the MWTM Processes Events, page 9-22.](#)

Viewing the Security Log

The Security Log shows the contents of the MWTM system security log file for the server to which you are connected, and which is currently running the MWTM server. The system security log lists:

- All security events that have occurred for the MWTM server
- The time each event occurred
- The user and command that triggered the event
- The text of any associated message

The default path and filename for the system security log file is */opt/CSCOs/gm/logs/sgmSecurityLog.txt*. If you installed the MWTM in a directory other than */opt*, then the system security log file is in that directory.

To access the Security Log, click **Administrative > General > Security Log**. You can also view the Security Log with the `mwtm seclog` command.

The Last Security Entries table contains these columns:

| Column | Description |
|-----------|--|
| Timestamp | Date and time the security event occurred. To sort the entries by time, click the Time heading. |
| User | User who triggered the security event. To sort the entries by user, click the User heading. |
| Message | Text of the security event message. To sort the entries alphabetically by message text, click the Message heading. |
| Command | Text of the command that triggered the security event. To sort the entries alphabetically by command text, click the Command heading. |

Viewing the Install Log

The Install Log shows the contents of the MWTM system installation log. The installation log contains messages and other information recorded during installation, which can be useful when troubleshooting problems. The Install Log also records the installer's selections (for example, whether the installer chose to configure the MWTM to receive SNMP traps).

The default path and filename for the install log file is `/opt/CSCOSgm/install/cisco_sgmsvr_install.log`. If you installed the MWTM in a directory other than `/opt`, then the install log file is in that directory.

To access the Install Log, click **Administrative > General > Install Log**. You can also view the Install Log with the `mwtm installlog` command.

Viewing the Web Access Logs

The Web Access Logs page shows a list of web access log files for the server to which you are connected, and which is currently running the MWTM server. The web access log lists all system web access messages that have been logged for the MWTM server, providing an audit trail of all access to the MWTM server through the MWTM web interface.

The default path and filename for the web access log file is `/opt/CSCOSgm/apache/logs/access_log`. If you installed the MWTM in a directory other than `/opt`, then the web access log file is in that directory.

To access the Web Access Logs page, click **Administrative > General > Web Access Logs**. You can also view the Web Access Logs page using the `mwtm webaccesslog` command.

Viewing the Web Error Logs

The Web Error Logs page shows a list of web error log files for the server to which you are connected, and which is currently running the MWTM server. The web server error log lists all system web error messages that have been logged for the MWTM web server. You can use the web error log to troubleshoot the source of problems that users may have encountered while navigating the MWTM web interface.

The default path and filename for the web error log file is `/opt/CSCOSgm/apache/logs/error_log`. If you installed the MWTM in a directory other than `/opt`, then the web error log file is in that directory.

To access the Web Error Logs page, click **Administrative > General > Web Error Logs**. You can also view the Web Error Logs page using the `mwtm weberrorlog` command.

Viewing the Report Log

The Report Log shows the message log for ITP reports for the server to which you are connected, and which is currently running the MWTM server. You can view this log to determine the beginning and finish times for report generation. The log also records errors that occurred during report generation (for example, server connection errors).

The default path and filename for the report log file is `/opt/CSCOSgm/logs/sgmReportLog.txt`. If you installed the MWTM in a directory other than `/opt`, then the report log file is in that directory.

To access the Report Log, click **Administrative > General > Report Log**. You can also view the Report Log with the `mwtm replot` command.

Viewing the Report Timers

To access the Report Timers, click **Administrative > General > Report Timers**.

The Report Timers displays the output of the following command:

```
/opt/CSCOSgm/bin/mwtm statrep timer
```

The output displays the timer file for MWTM network statistics reports. The timer file is useful for identifying how much time the MWTM spends gathering report data and generating reports.

Viewing Properties

Property files for the MWTM are in the `/opt/CSCOSgm/properties` directory. You can view the MWTM properties from the MWTM web interface by clicking **Administrative** in the navigation tree in the left pane and then clicking **General** tab in the right pane:

- [Viewing System Properties, page 12-15](#)
- [Viewing Server Properties, page 12-17](#)
- [Viewing Web Configuration Properties, page 12-17](#)
- [Viewing Reports Properties, page 12-19](#)
- [Viewing Trap Forwarding Properties, page 12-20](#)

Viewing System Properties

To access the System Properties file, click **Administrative > General > System** in the Properties pane. The MWTM shows the contents of the `/opt/CSCOSgm/properties/System.properties` file.

The System Properties file contains MWTM server and client properties that control various MWTM configuration parameters.

You can change some of the system properties using MWTM commands:

| To change this system property | Use this MWTM command |
|--------------------------------|--|
| ATBLDIR | <code>mwtm atbldir</code> , page B-99 |
| AUTO_SYNC_CONFIG | <code>mwtm autosynconfig</code> , page B-100 |

| To change this system property | Use this MWTM command |
|--------------------------------|---------------------------------|
| BACKUP_RMIPOPT | mwtm secondaryserver, page B-60 |
| BACKUP_SERVER | |
| BACKUP_WEBPORT | |
| BACKUPDAYS | mwtm backupdays, page B-10 |
| BADLOGIN_TRIES_ALARM | mwtm badloginalarm, page B-12 |
| BADLOGIN_TRIES_DISABLE | mwtm badlogindisable, page B-12 |
| CHART_MAX_WINDOW | mwtm chartwindow, page B-15 |
| CONSOLE_ARCHIVE_DIR_MAX_SIZE | mwtm archivedirsize, page B-8 |
| CONSOLE_LOG_MAX_SIZE | mwtm consolelogsize, page B-21 |
| CSV_FIELD_DELIMITER | mwtm collectstats, page B-20 |
| CSV_STRING_DELIMITER | |
| CW2K_SERVER | mwtm cwsetup, page B-22 |
| CW2K_WEB_PORT | |
| CW2K_SECURE_WEB_PORT | |
| GTTDIR | mwtm gttmdir, page B-108 |
| JSP_PORT | mwtm jspport, page B-39 |
| LOGAGE | mwtm msglogage, page B-48 |
| LOGDIR | mwtm msglogdir, page B-48 |
| LOGSIZE | mwtm logsize, page B-42 |
| LOGTIMEMODE | mwtm logtimemode, page B-43 |
| LOG_TROUBLESHOOTING | mwtm tshootlog, page B-88 |
| MANAGE_BWG | mwtm manage, page B-44 |
| MANAGE_CSG1 | |
| MANAGE_CSG2 | |
| MANAGE_GGSN | |
| MANAGE_HA | |
| MANAGE_ITP | |
| MANAGE_RAN-O | |
| PERSISTENCEDIR | |
| PROMPT_CREDS | mwtm logincreds, page B-42 |
| REQUIRE_ARCHIVE_COMMENTS | mwtm deploycomments, page B-104 |
| ROUTEDIR | mwtm routedir, page B-122 |
| SBACKUPDIR | mwtm backupdir, page B-11 |
| SERVER_NAME | mwtm servername, page B-62 |
| SNMPCONFFILE | mwtm snmpconf, page B-64 |
| SSL_ENABLE | mwtm ssl, page B-74 |
| TFTP_ATBLPATH | mwtm atbldir, page B-99 |

| To change this system property | Use this MWTM command |
|--------------------------------|--|
| TFTP_GTTTPATH | mwtm gttdir , page B-108 |
| TFTP_ROUTEPAH | mwtm routedir , page B-122 |
| TRAP_LIST_ENABLE | mwtm trapsetup , page B-87 |
| TRAP_PORT | |
| USE_TERMINAL_PROXY | mwtm termproxy , page B-85 |
| VCS_REPOSITORY_DIR | mwtm archivedir , page B-98 |
| WEB_PORT | mwtm webport , page B-93 |
| WEB_BROWSER | mwtm browserpath , page B-13 |

For these system properties, you can view related documentation:

| System Property | Related Documentation |
|------------------|---|
| CLIENT_PORT | Configuring Port Numbers and Parameters , page H-5 |
| DATASERVER_PORT | |
| LOGINSERVER_PORT | |
| RMIREGISTRY_PORT | |
| MAX_CHART_SERIES | Displaying Backhaul Performance Statistics , page 11-24 |

Viewing Server Properties

To access the Server Properties file, click **Administrative > General > Server** in the Properties pane. The MWTM shows the contents of the `/opt/CSCOSgm/properties/Server.properties` file.

The Server Properties file contains various properties that control the MWTM server.

You can use MWTM commands to change these server properties:

| To change this server property | Use this MWTM command |
|--------------------------------|--|
| DEMAND_POLLER_TIMELIMIT | mwtm pollertimeout , page B-51 |
| SNMP_MAX_ROWS | mwtm snmpwalk , page B-71 |
| UNKNOWN_AGING_TIMEOUT | mwtm unknownage , page B-89 |

To change poller parameters in the Server Properties file, see the “[Changing MWTM Server Poller Settings](#)” section on page 3-2.

Viewing Web Configuration Properties

To access the Web Configuration Properties file, click **Administrative > General > WebConfig** in the Properties pane. The MWTM shows the contents of the `/opt/CSCOSgm/properties/WebConfig.properties` file.

The Web Configuration Properties file contains properties that control the configuration of the MWTM web interface. For example:

```
MAX_ASCII_ROWS = 6000
```

```

MAX_HTML_ROWS          = 100

# The selectable page sizes start at MIN_SELECTABLE_PAGE_SIZE and doubles until
# the MAX_SELECTABLE_PAGE_SIZE value is reached
# (e.g. 25, 50, 100, 200, 400, 800)
MIN_SELECTABLE_PAGE_SIZE = 25
MAX_SELECTABLE_PAGE_SIZE = 800
LOG_UPDATE_INTERVAL     = 300
WEB_UTIL                 = percent
WEB_NAMES                = display
MAX_EV_HIST              = 15000

```

You can use the MWTM to change the web configuration properties:

| Web Configuration Property | Changing Default Setting |
|----------------------------|---|
| LOG_UPDATE_INTERVAL | To control how often, in seconds, the MWTM updates certain web output, use the <i>mwtm weblogupdate</i> command. The valid range is 1 second to an unlimited number of seconds. The default value is 300 seconds (5 minutes). |
| MAX_ASCII_ROWS | To set the maximum number of rows for MWTM ASCII web output, such as displays of detailed debugging information, use the <i>mwtm maxascirows</i> command. The valid range is 1 row to an unlimited number of rows. The default value is 6,000 rows. |
| MAX_EV_HIST | To set the maximum number of rows for MWTM to search in the event history logs, use the <i>mwtm maxevhist</i> command. The event history logs are the current and archived MWTM network status logs for status change and SNMP trap messages. The MWTM sends the results of the search to the web browser, where the results are further limited by the setting of the <i>mwtm maxhtmlrows</i> command. The valid range is 1 row to an unlimited number of rows. The default value is 15,000 rows. |
| MAX_HTML_ROWS | To set the maximum number of rows for MWTM HTML web output, such as displays of statistics reports, status change messages, or SNMP trap messages, use the <i>mwtm maxhtmlrows</i> command. This lets you select a page size (if you have not explicitly chosen a page size). Once you select a page size from any page, the MWTM remembers your preference until you delete your browser cookies. The default value is 100 rows. |
| MIN_SELECTABLE_PAGE_SIZE | This setting determines the minimum page size for the user to select from the Page Size drop-down menu. The page size values start with the MIN_SELECTABLE_PAGE_SIZE and double until they reach the MAX_SELECTABLE_PAGE_SIZE. |
| MAX_SELECTABLE_PAGE_SIZE | This setting determines the maximum page size for the user to select from the Page Size drop-down menu. The page size values start with the MIN_SELECTABLE_PAGE_SIZE and double until they reach the MAX_SELECTABLE_PAGE_SIZE. |

| Web Configuration Property | Changing Default Setting |
|----------------------------|--|
| WEB_NAMES | <p>To specify whether the MWTM should show real DNS names or display names in web pages, enter the mwtm webnames command. To show:</p> <ul style="list-style-type: none"> The real DNS names of nodes, as discovered by the MWTM, enter mwtm webnames real. Display names, enter mwtm webnames display. Display names are new names that you specify for nodes. This is the default setting. For more information about display names, see the “Editing Properties” section on page 6-33. |
| WEB_UTIL | <p>To specify whether the MWTM should display send and receive as percentages or in Erlangs in web pages, enter the mwtm who command. To show:</p> <ul style="list-style-type: none"> as a percentage, enter mwtm webutil percent. This is the default setting. Display in Erlangs (E), enter mwtm webutil erlangs. <p>See Displaying RAN-O Statistics, page 11-22 and Displaying Error Statistics, page 11-26 for more information.</p> <p>See Chapter 13, “Managing Reports” for more information on send and receive for linksets and links.</p> |

Each of the web configuration commands requires you to be logged in as the root user, as described in the “[Becoming the Root User \(Server Only\)](#)” section on page 3-2, or as a superuser, as described in the “[Specifying a Super User \(Server Only\)](#)” section on page 2-18.

Related Topic

[PDSN Reports, page 13-97.](#)

Viewing Reports Properties

To access the Reports Properties file, click **Administrative > General > Reports** in the Properties pane. The MWTM shows the contents of the `/opt/CSCOs/gm/properties/Reports.properties` file.

The Reports Properties file contains properties that control various aspects of the reports that are available in the MWTM web interface.

You can use MWTM commands to change these reports properties:

| To change this server property | Use this MWTM command |
|--------------------------------|--|
| ACC_REPORTS | mwtm accstats, page B-96 |
| DSMR_REPORTS | |
| GGSN_REPORTS | mwtm ggsnstats, page B-126 |
| GTT_REPORTS | mwtm gttstats, page B-110 |
| LINK_REPORTS | mwtm linkstats, page B-111 |
| MLR_REPORTS | mwtm mlrstats, page B-114 |
| MSU_REPORTS | mwtm statreps, page B-76 |
| Q752_REPORTS | mwtm q752stats, page B-120 |

| To change this server property | Use this MWTM command |
|--------------------------------|---|
| RAN_REPORTS | mwtm statreps, page B-76 |
| RPT_15MIN_AGE | mwtm rep15minage, page B-54 |
| RPT_CUSTOM_AGE | mwtm repcustage, page B-121 |
| RPT_DAILY_AGE | mwtm repdailyage, page B-55 |
| RPT_HOURLY_AGE | mwtm rephourlyage, page B-56 |
| RPT_RAN_AGE | mwtm statreps, page B-76 |
| RPT_IPLINKS | mwtm statreps, page B-76 |
| RPT_MONTHLY_AGE | mwtm repmonthlyage, page B-57 |
| RPT_NULLCAPS | mwtm statreps, page B-76 |
| RPT_UTILRATIO | mwtm statreps, page B-76 |
| RPT_SERVRATIO | mwtm statreps, page B-76 |
| RPT_TIMEMODE | mwtm statreps, page B-76 |
| STATS_REPORTS | mwtm statreps, page B-76 |
| XUA_REPORTS | mwtm xuastats, page B-124 |

Viewing Trap Forwarding Properties

To access the Trap Forwarding Properties file, click **Administrative > General > TrapForwarding** in the Properties. The MWTM shows the contents of the */opt/CSCOs/gm/properties/TrapForwarder.properties* file.

The Trap Forwarder Properties file contains a list of the destination addresses for the trap forwarder. Enter each destination address on its own line and use this format:

SERVER*xx=destination_IP_address[:port_number]*

The *port_number* parameter is optional.




Viewing SNMP Tab Details

The MWTM web interface **SNMP** tab provides access to SNMP (Simple Network Management Protocol) Editor to edit the SNMP settings. To view the **SNMP** tab information, click **Administrative** in the navigation tree and then click **SNMP** tab in the right pane. The **SNMP** tab contains:

- [SNMP Editor Buttons, page 12-20](#)
- [SNMP Editor Table, page 12-21](#)

SNMP Editor Buttons

The SNMP tab contains the following buttons:

| Button | Description |
|---|--|
|  Add a new SNMP entry | <p>Adds the new SNMP settings to the MWTM database. It opens Add SNMP Entry window.</p> <p>To add a new node or range of nodes, enter the SNMP information in the appropriate fields of the Add SNMP Entry window and click OK. The new SNMP settings are added to the MWTM database and are displayed in the SNMP Editor table in the right pane.</p> <p>Click Cancel to close the Add SNMP Entry window.</p> <p>Click Help to display the online help for the window.</p> |
|  Save All SNMP entries | Saves all the SNMP entries added. |
|  Reload SNMP entries from the server | Reloads all the SNMP entries from the server. |

Add SNMP Entry

The Add SNMP Entry window contains the following fields:

| Field or Button | Description |
|------------------------------|---|
| IP Address Range or Hostname | IP address or DNS name of a node or range of nodes. An asterisk (*) indicates a wildcard value. |
| Read Community | SNMP community name used by the node for read access to the information maintained by the SNMP agent on the node. |
| Timeout (secs) | Time, in seconds, the MWTM waits for a response from the node. |
| Retries | Number of times the MWTM attempts to connect to the node. |
| Poll Interval (mins) | Time, in minutes, between polls for the node. |
| OK | Applies the new SNMP settings to the MWTM database. |
| Cancel | Closes the Add SNMP Entry window without applying any changes. |
| Help | Shows online help for the current window. |

SNMP Editor Table

The SNMP Editor table contains:

| Column | Description |
|------------------------------|---|
| IP Address Range or Hostname | IP address or DNS name of a node or range of nodes. An asterisk (*) indicates a wildcard value. |
| Read Community | SNMP community name used by the node for read access to the information maintained by the SNMP agent on the node. |
| Timeout (secs) | Time, in seconds, the MWTM waits for a response from the node. |
| Retries | Number of times the MWTM attempts to connect to the node. |

| Column | Description |
|----------------------|--|
| Poll Interval (mins) | Time, in minutes, between polls for the node. |
| Action | Delete—Deletes the entries in the corresponding row. |




Viewing Credentials Tab Details

The MWTM web interface **Credentials** tab provides access to Device Credentials Editor to edit the credential details for the nodes. To view the **Credentials** tab information, click **Administrative** in the navigation tree and then click **Credentials** tab in the right pane. The **Credentials** tab contains:

- [Device Credentials Editor Buttons, page 12-22](#)
- [Global Settings Table, page 12-23](#)
- [Node Settings Table, page 12-23](#)

Device Credentials Editor Buttons

The Credentials tab contains the following buttons:

| Button | Description |
|--|---|
|  Add a new credential for a node | <p>Adds new credentials to a specified node. It opens Add a Credential window.</p> <p>To add a new credential, enter the credential information in the appropriate fields of the Add a Credential window and click OK. The new credentials are added to the MWTM database and are displayed in the Global Settings table in the right pane.</p> <p>Click Cancel to close the Add a Credential window.</p> <p>Click Help to display the online help for the window.</p> |
|  Save All Credentials | Saves all the new credentials added. |
|  Reload credentials from the server | Reloads all the credentials from the server. |

Add a Credential

The Add a Credential window contains the following fields:

| Field or Button | Description |
|------------------|------------------------|
| Node | Type of node. |
| User Name | Login username. |
| Password | Login password. |
| Enable User Name | Login enable username. |
| Enable Password | Login enable password. |

| Field or Button | Description |
|-----------------|---|
| Protocol | Choose the protocol to use when connecting to the node, either SSH or Telnet. Note The key size on the node must be configured to a minimum of 768 bits and a maximum of 2048 bits. |
| OK | Adds the new credential information to the MWTM database. |
| Cancel | Closes the current window without saving the changes. |
| Help | Displays the online help for the window. |

Global Settings Table

The Global Settings table contains:

| Column | Description |
|---------------------|---|
| Node Type | Type of node. |
| User Name | Login username. |
| Password | Login password. |
| Enable User Name | Login enable username. |
| Enable Password | Login enable password. |
| Connection Protocol | Choose the protocol to use when connecting to the node, either SSH or Telnet. Note The key size on the node must be configured to a minimum of 768 bits and a maximum of 2048 bits. |
| Action | This column contains the following buttons: <ul style="list-style-type: none"> Test the Credentials—You can test the credentials you have configured on the corresponding node or the default credentials against a selected node type. This opens Test Credentials for Node Type window. An error message is displayed, if there are no nodes in data model to test. Clear the Row—Clears the entries in the corresponding row. The entries are cleared from the user interface. |

Node Settings Table

The Node Settings table contains:

| Column | Description |
|------------------|------------------------|
| Node | Type of node. |
| User Name | Login username. |
| Password | Login password. |
| Enable User Name | Login enable username. |
| Enable Password | Login enable password. |

| Column | Description |
|---------------------|--|
| Connection Protocol | Choose the protocol to use when connecting to the node, either SSH or Telnet. Note The key size on the node must be configured to a minimum of 768 bits and a maximum of 2048 bits. |
| Action | <ul style="list-style-type: none"> Test the Credentials—You can test the credentials you have configured on the corresponding node. This opens Test Credentials for Node window. Clear the Row—Clears the entries in the corresponding row. The entries are cleared in the user interface alone. |

Test Credentials for *Node Type*

The Test Credentials for *Node Type* window contains:

- Select a Node Pane

The Select a Node pane contains a drop-down menu which lists all the nodes of the corresponding *Node Type*.

- Logging Information Pane

The Logging Information pane displays the logging information about the node that you selected from the Select a Node drop-down menu. The information for the selected node is displayed after clicking **OK** button in the window.

- Test Credentials for *Node Type* Buttons

The Test Credentials for *Node Type* contains the following buttons:

| Button | Description |
|--------|--|
| OK | Tests the credentials you have configured on the corresponding node or the default credentials against a selected node type. |
| Close | Closes the current window. |
| Help | Displays the online help for the window. |

Test Credentials for *Node*

The Test Credentials for *Node* window contains:

- Logging Information Pane

The Logging Information pane displays the logging information about the node. a timeout error is displayed if the credential information is not present for the corresponding node.

- Test Credentials for *Node* Buttons

The Test Credentials for *Node* contains the following buttons:

| Button | Description |
|--------|--|
| Close | Closes the current window. |
| Help | Displays the online help for the window. |

Viewing Discovery Tab Details



The MWTM web interface **Discovery** tab allows you to discover the network. To view the **Discovery** tab information, click **Administrative** in the navigation tree and then click **Discovery** tab in the right pane. The **Discovery** tab contains:


- [Discover Network Buttons](#), page 12-25
- [Discovery Seeds Pane](#), page 12-28
- [Discovery Settings Pane](#), page 12-29

See [Discovering Your Network](#), page 3-4 for more information on Discovery feature.

Discover Network Buttons

The Discover Network pane contains the following buttons:

| Button | Description |
|--|--|
|  Load Seeds | Opens Load File Dialog window, enabling you to load a seed file into the MWTM. |
|  Save Seeds | Saves the changes you have made to the chosen seed file. |

| Button | Description |
|---|--|
|  Save As | Opens the Save File Dialog , which you use to save changes chosen seed file with a new name, or overwrite an existing seed file. |
| Discover Network | <p>Begins discovering the network.</p> <p>Click Discover Network to begin Discovery.</p> <p>If you have not defined at least one seed node in the Seed Settings tab, the MWTM prompts you to do so.</p> <p>When Discovery begins:</p> <ul style="list-style-type: none"> • The Discover Network button changes to Stop Discovery. • The <code>Discovery In Progress</code> message appears in the title bar of all MWTM client windows. <p>Discovery progresses in bursts. You might see a number of updates, followed by a pause, followed by more updates. The information that MWTM windows displays is not fully updated until Discovery is complete.</p> <p>By default, Discovery times out after 600 seconds (10 minutes). To change the Discovery timeout, change the value of the <code>DISCOVERY_TIMELIMIT</code> entry in the <i>Server.properties</i> file:</p> <ul style="list-style-type: none"> • If you installed the MWTM in the default directory, <code>/opt</code>, then the location of the <i>Server.properties</i> file is <code>/opt/CSCOSgm/properties/Server.properties</code>. • If you installed the MWTM in a different directory, then the <i>Server.properties</i> file resides in that directory. <p>Because the MWTM is an asynchronous system, with the MWTM server contacting clients one at a time, and because clients might run at different speeds, the information that MWTM clients display during Discovery might not always be synchronized.</p> <p>All other MWTM windows (Node, topology, and so on) are also populated with the newly discovered network data.</p> |

Load File Dialog

The Load File Dialog window contains:

| Field or Button | Description |
|-------------------------------------|--|
| Seed File List | <p>The Seed File List pane contains:</p> <ul style="list-style-type: none"> • Go up one Folder—Click this icon to go up one folder in the directory structure. • Type—Icon indicating whether the item in the table is a file or a folder. • Name—Name of the seed file or folder. • Last Modified—Date and time the seed file or folder was last modified. • Size (bytes)—Size of the seed file or folder, in bytes. |
| Make this my preferred start option | <p>Specifies whether the chosen seed file should be loaded automatically whenever this MWTM client is started or the Discovery dialog box is opened.</p> <p>By default, this check box is unchecked for all seed files. That is, no seed file is loaded automatically when the MWTM client is started or the Discovery dialog box is opened.</p> |

| Field or Button | Description |
|-----------------|---|
| OK | <p>Loads the chosen seed file, saves any changes you made to the list of files, and closes the dialog box.</p> <p>To load a seed file, double-click it in the list, select it in the list and click OK, or enter the name of the file and click OK.</p> <p>The MWTM saves any changes you made to the list of files, closes the Load File Dialog: Seed File List dialog box, loads the seed file, and returns to the Discovery dialog box. The MWTM lists all of the seed nodes in the seed file in the Seed Nodes pane, and displays details of the SNMP settings for the seed nodes in the Seed Details pane.</p> |
| Delete | Deletes the chosen file from the seed file list. The MWTM issues an informational message containing the name and location of the deleted file. |
| Cancel | Closes the dialog box without loading a seed file or saving any changes to the seed file list. |
| Help | Displays online help for the dialog box. |

See [Loading a Seed File, page 3-8](#) for more information about loading the seed files.

Save File Dialog

The Save File Dialog window contains:

| Field or Button | Description |
|-------------------------------------|--|
| Seed File List | <p>The Seed File List pane contains:</p> <ul style="list-style-type: none"> • Go up one Folder—Click this icon to go up one folder in the directory structure. • New Folder—Click this icon to create a new folder in the current directory. This action opens the Input dialog box. Enter a folder name and click OK. The new folder appears in the Save File dialog box. Double-click the folder to open it. You can save files in this folder or create another folder at this level. • Type—Icon indicating whether the item in the table is a file or a folder. • Name—Name of the seed file or folder. • Last Modified—Date and time the seed file or folder was last modified. • Size (bytes)—Size of the seed file or folder, in bytes. |
| Filename | <p>Name by which you want to save the seed file.</p> <p>If you create a new seed filename, you can use any letters, numbers, or characters in the name that are allowed by your operating system. However, if you include any spaces in the new name, the MWTM converts those spaces to hyphens. For example, the MWTM saves file <i>a b c</i> as <i>a-b-c</i>.</p> |
| Make this my preferred start option | <p>Specifies whether the chosen seed file should be loaded automatically whenever this MWTM client is started or the Discovery dialog box is opened.</p> <p>By default, this check box is unchecked for all seed files. That is, no seed file is loaded automatically when the MWTM client is started or the Discovery dialog box is opened.</p> |

| Field or Button | Description |
|-----------------|---|
| OK | <p>Saves the seed file and any changes you made to the seed file list and closes the dialog box.</p> <p>To save the seed file with a new name, you can either save the file with:</p> <ul style="list-style-type: none"> • A completely new name. Enter the new name and click OK. • An existing name, overwriting an old seed file. Select the name in the list and click OK. <p>The MWTM:</p> <ul style="list-style-type: none"> • Saves the seed file with the new name • Saves any changes you made to the list of files • Closes the Save File Dialog: Seed File List dialog • Returns to the Discovery dialog box |
| Delete | Deletes the chosen file from the seed file list. The MWTM issues an informational message containing the name and location of the deleted file. |
| Cancel | Closes the dialog box without saving the seed file or saving any changes to the seed file list. |
| Help | Displays online help for the dialog box. |

See [Saving a Seed File, page 3-8](#) for more information on saving the seed files.

Discovery Seeds Pane

The Discovery Seeds pane contains:

- [Seed Nodes File: No File panel, page 12-28](#)
- [Seed Details panel, page 12-29](#)

Seed Nodes File: No File panel

The Seed Nodes File: No File panel contains:

| Field or Button | Description |
|--|---|
| IP Address, Address Range, Subnet, CIDR, or DNS Hostname | <p>Address or name of the chosen seed node.</p> <p>To create a new seed file, enter the name or address of a seed node in this field. Examples of acceptable input include:</p> <ul style="list-style-type: none"> • IP Address: 1.2.3.4 (see the guidelines for IP addresses in SNMP Configuration Table, page 3-16). • Address Range: 1.2.3.2-15 • Subnet, CIDR: 1.2.3.0/24, 1.2.3.0/255.255.255.0 • DNS Hostname: mwtm.cisco.com |

| Field or Button | Description |
|-----------------|---|
| Add | Adds a new seed node to the MWTM. |
| Delete | Deletes the chosen seed node. A confirmation dialog is displayed before deleting the seed node. |

Seed Details panel

The Seed Details panel contains:

| Field | Description |
|------------------------------|---|
| IP Address Range or Hostname | IP address or DNS name of a node or range of nodes. An asterisk (*) indicates a wildcard value. |
| Read Community | SNMP community name used by the node for read access to the information maintained by the SNMP agent on the node. |
| Timeout (secs) | Time, in seconds, the MWTM waits for a response from the node. |
| Retries | Number of times the MWTM attempts to connect to the node. |
| Poll Interval (mins) | Time, in minutes, between polls for the node. |

Discovery Settings Pane

The Discovery Settings pane contains:

| Field | Description |
|----------------|---|
| Entire Network | <p>Check box used to specify the extent of the network discovery:</p> <ul style="list-style-type: none"> To discover the entire network, check this check box. This is called <i>recursive discovery</i>, and it is the default setting. <p>With this check box checked, the MWTM discovers all seed nodes and attempts to manage them; then attempts to discover and manage all nodes that are adjacent to those seed nodes (unless the nodes are connected by serial links only); then attempts to discover and manage all nodes that are adjacent to <i>those</i> nodes; and so on, until the Max Hops limit is reached.</p> <ul style="list-style-type: none"> To rediscover only seed nodes, uncheck this check box. This is called <i>nonrecursive discovery</i>. <p>With this check box unchecked, the MWTM discovers all seed nodes and attempts to manage them, then labels all nodes that are adjacent to those seed nodes as Unmanaged.</p> <p>Note When the user unchecks this option, the Max Hops field gets grayed-out.</p> |

| Field | Description |
|----------------------|---|
| Max Hops | The maximum number of hops from the seed node to search for other nodes to discover. Default is 3. |
| Delete Existing Data | <p>Check box used to keep or delete the existing MWTM database when discovering the network:</p> <ul style="list-style-type: none"> To keep all existing network data in the MWTM database before rediscovering the network, uncheck this check box. This is the default setting. To delete all existing network data from the MWTM database before rediscovering the network, check this check box. Choose this option if you know that network elements have been deleted from your network since the last Discovery. <p>If you discover the network with Delete Existing Data chosen, the MWTM stops any real-time polls that are running and issues appropriate messages.</p> |

Viewing User Management Tab Details

The MWTM allows user management through the web interface. User access must be enabled for this feature. A level 5 user must be created during installation or post-installation using the MWTM CLI as root. A web user with user management permissions with MWTM access level five, can add or delete users and modify user passwords and roles/access levels.



To access the **User Management**, click **Administrative** in the navigation tree and then click **User Management** tab in the right pane. This tab displays all users in the system along with the time of their most recent login, their access level, and their account status.

The User Management tab contains:

- [User Management Buttons, page 12-30](#)
- [User Management Table, page 12-32](#)

User Management Buttons

The User Management tab contains the following buttons:

| Button | Description |
|---|--|
|  Create a new user account | <p>When the local authentication is enabled, it opens the Add New User window. Password is the input when local authentication is enabled.</p> <p>When the solaris or linux authentication is enabled, it opens the Add New User window. But it does not prompt for passwords since it reuses the OS-based passwords.</p> <p>To add a new user, enter the user information in the appropriate fields of the Add New User window and click OK. The new user is added to the MWTM database and the new information is displayed in the User Management table.</p> <p>Click Cancel to close the window.</p> <p>Click Help to display the online help for the window.</p> |
|  Delete an existing user account | <p>Deletes an existing user. The user interface asks for confirmation and deletes the user.</p> <p>To delete multiple users, click the checkbox in the user row and then click the 'Delete an existing user account' button in the toolbar.</p> |
| <i>Users</i> users selected | Number of currently selected users. |
| Clear Selection | Deselects the selected list of users. |

Add New User

The Add New User window contains the following options when the local authentication is enabled:

| Field or Button | Description |
|--|---|
| Name | The user name. |
| Level | <p>Authentication level for the user. The valid values are:</p> <ul style="list-style-type: none"> • Basic User • Power User • Network Operator • Network Administrator • System Administrator • Custom Level 1 • Custom Level 2 |
| Password | User's password. |
| Confirm Password | Retype the password to confirm the new password. |
| Force user to reset password at login? | Whether to force the user to change the password at the next log in. The default is not to force the user to change the password. |
| OK | Saves the new user information. |
| Cancel | Closes the window without saving the changes. |
| Help | Shows online help for the window. |

Add New User

The Add New User window contains the following options when solaris or linux authentication is enabled:

| Field or Button | Description |
|--------------------------------|--|
| Name | The user name. |
| Level | Authentication level for the user. The valid values are: <ul style="list-style-type: none"> • Basic User • Power User • Network Operator • Network Administrator • System Administrator • Custom Level 1 • Custom Level 2 |
| Add users not known to system? | Whether to add the users who are not known to the system. The default is not to add the unknown users to the system. |
| OK | Saves the new user information. |
| Cancel | Closes the window without saving the changes. |
| Help | Shows online help for the window. |

User Management Table

The User Management table contains:

| Field or Button | Description |
|-----------------|---|
| Action | Allows you to change the user's password. Click the Change a user's password icon under the 'Action' column, To open Update user window . Enter the new passwords in the appropriate fields of the window and click OK . Click Cancel to close the window without saving the changes. Click Help to display the online help for the window. |
| User | The MWTM user for whom a User-Based Access account has been set up. |
| Last Login | Date and time the user last logged in to the MWTM. |

| Field or Button | Description |
|-----------------|--|
| Access Level | <p>Authentication level and number for the user. Valid levels and numbers are:</p> <ul style="list-style-type: none"> • Basic User, 1 • Power User, 2 • Network Operator, 3 • Network Administrator, 4 • System Administrator, 5 • Custom Level 1, 11 • Custom Level 2, 12 |
| Account Status | <p>Current status of the user's account. Valid status settings are:</p> <ul style="list-style-type: none"> • Enabled—The account has been enabled and is functioning normally. • Disabled—The account has been disabled for one of these reasons: <ul style="list-style-type: none"> – A System Administrator disabled the account. See the “mwtm disablepass” section on page B-26 and the “mwtm disableuser” section on page B-27 for more information. – The MWTM disabled the account as a result of too many failed attempts to log in using the account. See the “mwtm badlogindisable” section on page B-12 for more information. – The MWTM disabled the account because it was inactive for too many days. See the “mwtm inactiveuserdays” section on page B-35 for more information. • Expired Password • Temporary Password |

Update *user* window

The Update *user* window contains:

| Field or Button | Description |
|--|---|
| Password | User's password. |
| Confirm Password | Retype the password to confirm the new password. |
| Force user to reset password at login? | Whether to force the user to change the password at the next log in. The default is not to force the user to change the password. |
| OK | Saves the new user information. |
| Cancel | Closes the window without saving the changes. |
| Help | Displays online help for the window. |

