



Getting Started with CMNM

Starting a CMNM Session



Note CEMF should already be running. If, upon starting, you receive a message that CEMF is not running, do the following:

To start CEMF:

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- Step 1** Log in as root.
 - Step 2** From the command line on the terminal window, type:
`cd CMNM_ROOT/bin`
where *CMNM_ROOT* is the CMNM installation root directory (for example, /opt/CSCOmngcm).
 - Step 3** Type:
`cemf start`
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To start a CMNM session:

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- Step 1** Log in as your user ID.
 - Step 2** From the command line on the terminal window, type:
`CMNM_ROOT/bin/cemf session`
where *CMNM_ROOT* is the CMNM installation root directory (for example, /opt/CSCOmngcm).
You see the CEMF Login screen shown in Figure 4-1.

Figure 4-1 CEMF Login Screen

Step 3 Enter your user name and password, then click **Ok** to proceed.

If you enter an unknown user name or password, you see an error message.



Note The default user ID is admin and the default password is admin.

Step 4 Click **Ok**, then enter a valid user name and corresponding password.

You have three attempts to specify a valid user name and corresponding password. When you specify a valid user name and password, the session starts and the CEMF Launchpad screen, shown in Figure 4-2, is displayed.

If, after three attempts, you do not specify a valid user name and password, the session does not start and the Login window closes.

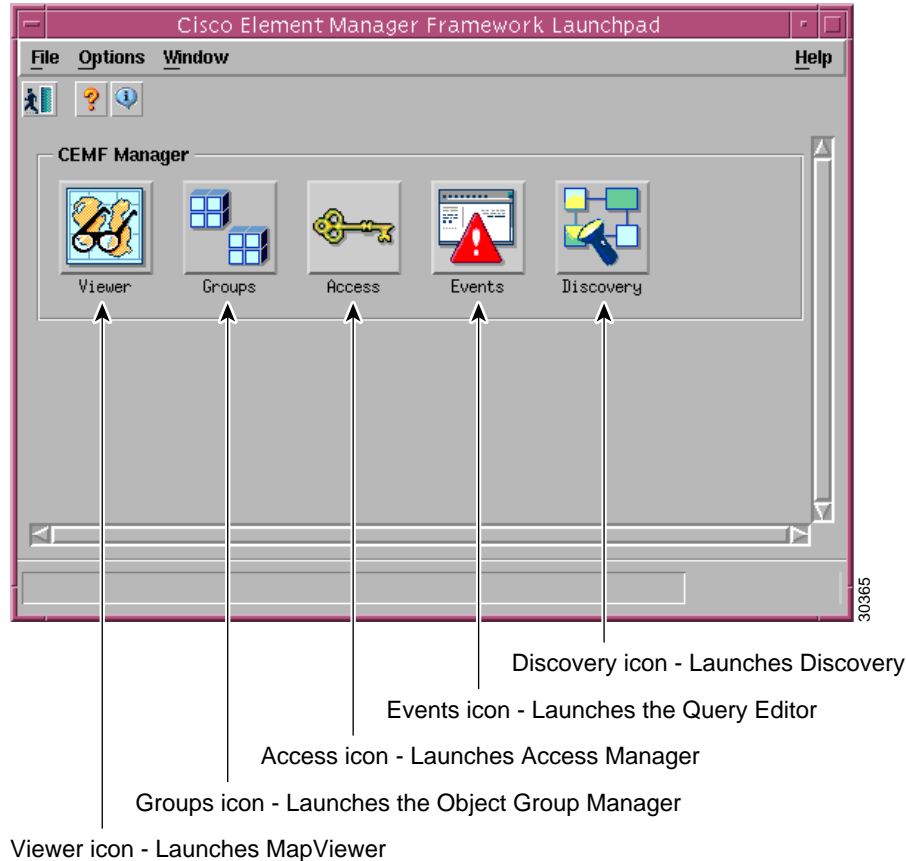
Starting Applications from the CEMF Launchpad

CMNM is built upon the Cisco Element Management Framework (CEMF). CEMF provides alarm filtering and sorting, enhanced auto-discovery, data collection, and object group management.

CMNM provides the Cisco MGC node-specific functionality as an extension to the base CEMF services.

The CEMF Launchpad, shown in Figure 4-2, is used to access CMNM's features.

Figure 4-2 CEMF Launchpad Screen



- **Viewer**—You can view, build, and monitor a network with Map Viewer. You can monitor the networks using network and network object connections.
- **Groups**—You can organize network elements into object groups with the Object Group manager. You can create, delete, and modify object groups.
- **Access**—The Access menu allows an administrator to set up users and user groups, assign passwords, and define access parameters.
- **Events**—Clicking the Events button brings up the Event Browser and Query Editor. You can create object groups or browse events from these screens.
- **Discovery**—The Discovery feature allows you to examine the network for IP and SNMP devices and create a managed object for each new device discovered.

To launch an application:


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- Step 1** From the CEMF Launchpad, click the desired application's icon.

The selected application is launched. A busy icon and a message in the status bar is displayed during launch. More than one instance of an application can be opened at any one time.

**Note**

If an application is already open, it appears in the Windows list. Click **Window** and choose the application you require from the pull-down menu.

Quitting a CMNM Session

- Step 1** You can quit in the following ways:
- From the File menu, select **Quit** .
 - Press **Ctrl + Q**.
 - Click the **Close** icon  from the Toolbar.
- Step 2** A dialog box prompts you if you want to quit the CEMF Manager System. Click **Yes** to quit the session. All active applications are closed and the session terminates.

Using CMNM Tools

You can use either the mouse or the keyboard to access the various features provided by CMNM. The mouse buttons are used for the functions listed below.

Using the Mouse

Each button on the mouse is consistently used for different functions in CMNM.

- Click the left mouse button to:
 - Select
 - Activate
 - Set the location of the cursor
- Click the middle mouse button to:
 - Copy
 - Move
 - Drag
- Click the right mouse button to access pop-up menus by clicking and holding the right mouse button on a managed object within applications, such as the Map Viewer and the Object Group Manager, and events in the Event Browser.

Shortcut Keys

Ctrl +

Standard CMNM menus are available from the Toolbar. Items can be selected from the menus or by typing the keys in Table 4-1 and Table 4-2.

Table 4-1 File Menu Short Cut Keys

Key Sequence	File Menu Function
Ctrl + Q	Quit
Ctrl + W	Close
Ctrl + P	Print
Ctrl + S	Save
Ctrl + N	New
Ctrl + O	Open

Table 4-2 Edit Menu Short Cut Keys

Key Sequence	File Menu Function
Ctrl + Z	Undo
Ctrl + X	Cut
Ctrl + C	Copy
Ctrl + V	Paste
Ctrl + A	Select all
Ctrl + D	Deselect all



Note

When a menu option is grayed out, it is not available for selection.

Alt +

Items in the CMNM screens may be presented with the first (initial) letter underlined; for example, Actions. This means you can either select this option by left-clicking the mouse, or you can type **Alt + A** (in this example) from the keyboard.

Selecting from Lists in CMNM

Block Selecting Multiple Items by Clicking and the Shift Key

Step 1 Select the first item.

The item is highlighted.

Step 2 Press and hold the **Shift** key.

Step 3 Select the last item in the sequence.

Step 4 Release the **Shift** key.

All items between the first and last item are highlighted.

Selecting Multiple Items by Clicking and the Ctrl Key

Step 1 Select a relevant item in the list.

The item is highlighted.

Step 2 Place the cursor over the next item to be selected.

Step 3 Press **Ctrl** and click the left mouse button.

The item is highlighted.

Step 4 Repeat Step 2 and Step 3 until all the required items are highlighted.



Note This means of selection is useful when the items you wish to select are interspersed with other items.

Selecting All Items

Step 1 Place the cursor anywhere in the relevant window.

Step 2 Press and hold the right mouse button.

A pop-up menu is displayed. If you do not see a pop-up menu, then this procedure does not work in the current window.

Step 3 Move the cursor to the **Select All** option.

All items in the list are highlighted. This option may not be available in all windows.

Deselecting All Items

Step 1 Place the cursor anywhere in the relevant window.

Step 2 Press and hold the right mouse button.

A pop-up menu is displayed. If you do not see a pop-up menu, then this procedure does not work in the current window.

Step 3 Move the cursor to the **Deselect** option.

All items in the list are deselected. This option may not be available in all windows.

Using Diagnostic Tools

The CMNM lets you launch a number of different debug, configuration, and diagnostic tools including those listed in Table 4-3.

Table 4-3 Diagnostic and Configuration Tools

Diagnostic Tool	Available Devices	Description
Telnet	All IP devices	Standard Telnet application
CMM	Cisco MGC host	Cisco MGC Manager—Generic Cisco MGC host configuration tool used in all network architecture except those using the Voice Services Provisioning Tool.
Cisco MGC Toolbar	Cisco MGC host	Cisco MGC diagnostic tools toolbar
XTerm	Cisco MGC host/BAMS	Standard Xterm application
CiscoView	Cisco SLT/LAN switch	Cisco View application for the Cisco 2600 series, the Catalyst 2900XL Switch, and the Catalyst 5500 Switch
VSPT	Cisco MGC node	Voice Services Provisioning Tool used for provisioning the Cisco SS7 PRI Gateway Solution and Cisco Tandem Offload Solution.
Web Viewer	Cisco MGX 8260	Used to view and configure the Cisco MGX 8260.

Viewing Status Information

The area at the bottom of most windows displays status information.

When you double-click in this area, you see the Status Dialog screen shown in Figure 4-3. This screen lists previous status messages.

Figure 4-3 Status Dialog Screen



Using the Toolbar

The Toolbar contains icons which invoke various tools and menu options. The icons displayed in the Toolbar vary, depending on which window is being viewed. You can disable the Toolbar so it is not displayed in the window.

Enabling the Toolbar

From the Options menu, select **Show Toolbar**. The square next to Show Toolbar in the Options pull-down menu appears. The Toolbar is displayed only in the current window. The display of all other windows' Toolbars is not affected.



Note

The Show Toolbar option toggles the displaying of the Toolbar on and off. If a square is displayed to the left of Show Toolbar in the Options pull-down menu, the Toolbar relevant to the current window is displayed.

Figure 4-4 Example Toolbar



Disabling the Toolbar

From the Options menu, select **Show Toolbar**.

**Note**

The Show Toolbar option toggles the displaying of the Toolbar on and off. When a square is displayed to the left of Show Toolbar on the Options drop-down menu, the Toolbar relevant to the current window is displayed.

The square next to Show Toolbar on the Options pull-down menu disappears. A Toolbar is not displayed in the current window. The display of all other windows' Toolbars is not affected.

Showing or Hiding Tooltips


Tooltips provide a brief description or explanation of a toolbar button or window panel. Tooltips appear when the cursor is positioned over the item. You can choose to show or hide tooltips.

From the Options menu, select or clear the **Enable Tooltip**.

**Note**


The Enable Tooltip option toggles the tooltips on and off. When a square is displayed to the left of Enable Tooltips on the Options pull-down menu, tooltips are displayed.

Printing the View Displayed in the Window

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- Step 1** You can print in the following ways:
- From the File menu, select **Print**.
 - Press **Ctrl + P**.
 - Click the **Print** icon  from the Toolbar.

The displayed view is printed.

Closing a Window

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- Step 1** You can close a window in the following ways:
- From the File menu select **Close**.
 - Press **Ctrl + W**.
 - Click the **Close** icon  from the Toolbar.
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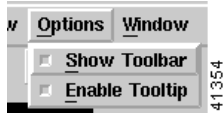
Accessing Help

CMNM provides online help for all of its features. A help button is on each of the CMNM dialogs and windows.

To access help, click the Help icon,  or select **Help** from the menu bar.

Clicking on the help button brings up the Netscape browser and displays the CMNM Help home page. If the help icon is not visible, on the toolbar select the **Options menu**, then select **Show Toolbar**.

Figure 4-5 Options Menu



Select **Enable Tooltips** to display text associated with icons as the cursor passes over them.

Moving Between Open Windows

Each window has a Window menu, as shown in Figure 4-6. When a window is open, it appears as an option in this menu. Select **Window**, then choose the window you want to open from the list of windows provided in the Window menu.

Figure 4-6 Window Drop-down Menu

