Getting Started

This chapter contains the following sections:

- Logging into Cisco Multicast Manager, page 2-1
- Navigating the GUI, page 2-3
- Devices Tab, page 2-3
- Cisco Multicast Manager Dashboard, page 2-5

Logging into Cisco Multicast Manager

Note For details on stopping and starting Cisco Multicast Manager on Solaris and Linux, see the Installation Guide for Cisco Multicast Manager 3.2.

To access Cisco Multicast Manager (CMM), enter the IP address or the name of the server where the software is installed; for example: https://172.20.110.23:8080. The default port of 8080 can be changed as described in the installation instructions.
Secure Sockets Layer (SSL) will be active by default.

Figure 2-1 Cisco Multicast Manager Login Window

The Login window appears.

Enter the credentials to log into CMM. The default CMM username is `admin`, and the default CMM password is `rmsmmt`. Click **Login**.

If the system administrator has configured a login alert, a message displays. Click the **Accept** button to accept the terms of use.
Navigating the GUI

For Cisco Multicast Manager Version 3.2 there are multiple methods of navigating the interface.

**Menu**

When you first log into Cisco Multicast Manager, the Getting Started Menu page appears. Select a main menu item to navigate to the submenu items.

*Figure 2-2 Cisco Multicast Manager Main Menu Page*

CMM Main Menu

The CMM Main Menu is the main navigation tool for CMM. To go to the main menu, from the CMM Dashboard, click the **Switch to Main** button.

**Devices Tab**

The Devices tab contains a list of devices discovered per domain.

To view the Devices tab:

**Step 1**

Click the **Devices** tab.

The Devices tab appears, as shown in *Figure 2-3*. The pane at the left of the page lists the devices for the current domain.
Step 2  Click a device link.

The Device page for the selected device appears, as shown in Figure 2-4.

Figure 2-4  Device Page

The Device page shows the Protocol Independent Multicast (PIM) neighbors, PIM Interface Mode, IGMP information, and Rendezvous Points (RPs) for the selected device.

Step 3  Check the check box for the CLI access method you will use:

- Telnet
- SSH v1
- SSH v2

Step 4  Enter the Username for the device.

Step 5  Enter the Password.
Step 6 Enter the **Enable Password** for the device.

Step 7 Enter an IOS command in the **Show Command** field.

Step 8 Click **Show** to display the output.

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**Cisco Multicast Manager Dashboard**

Select the Dashboard view from the Main Menu page.

*Figure 2-5 CMM Dashboard*

The CMM Dashboard contains two panes: a Latest Events pane that shows the latest CMM events and a Traps pane that shows the latest SNMP traps forwarded to CMM.

The top of the CMM Dashboard displays your username and indicates your last login time.

Each tab allows you to navigate to a different summary view:

- Click the **Latest Events** tab to view the latest multicast events.
- Click the **SG Events** tab to view the latest Source, Group events, including SG threshold events, Group Gone events, and Selective Source Monitoring events.
- Click the **Bandwidth Events** tab to view bandwidth events and L2 threshold events.
- Click the **Tree Events** tab to view tree events, including tree change events and SG Delta events.
- Click the **MPVN Events** tab to view MPVN events, including MDT source events, MDT default events, VRF interface count events, and VRF count events.
• Click the **RP Events** tab to view Rendezvous Point (RP) events, including RP polling events, RP group threshold events, and SG events.

• Click the **Video Events** tab to view video events, such as VidMon MLR High, DF High, video outage flow, or VidMon MRV high or low events. The events on the video events view are presented in two panes: the Video Probe Events pane and the Vidmon Events pane.

• Click the **CRM Events** tab to view CRM events, including Specific Unicast Route events and Specific Multicast route events.

• Click the **Summary** tab to view statistics for events for each event defined in CMM a bar graph report showing the events in each event category. The statistical report displays the statistics for the last 24 hours. The Summary tab also shows the domain details for each domain, including the Domain name, the number of devices in each domain, and the number of events for the domain.

• Click the **Graphs** tab to display graphs that indicate real-time statistics for up to four selected devices.

**Running a Trace from the Dashboard**

For S,G events listed in the Events pane on the CMM Dashboard, you can click on the link shown in the event listing to bring up an S,G trace for the events.

For devices that are communicating with a video probe, the trace shows video probe information, and for devices that are communicating with VidMon devices, the trace shows VidMon information.

**Displaying a Trap Details List from the Traps Pane**

For SNMP events that are shown in the Traps pane, click on the SNMP trap name in the Details column to display the details of the SNMP trap.

**Viewing Performance Graphs from the Dashboard**

To view up to four performance graphs from the dashboard:

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**Step 1**  
Click the **Graphs** tab.

**Step 2**  
The Graphs page appears, as shown in Figure 2-6.
The Graphs page shows up to four graphs that indicate real-time performance statistics for devices that have events showing on the Dashboard.

By default, CMM displays the last four graph report requested. For example, the Graphs page shown in Figure 2-6 displays MLR graphs for two video probes in the network, and a DF report for a VidMon device, and a DF report for a video probe.

**Step 3** To change the settings for one of the graphs, click the **Settings** button.

The Graph Settings dialog appears, as shown in Figure 2-7.
Figure 2-7  Graph Settings Dialog

Table 2-1  Graph Settings Options

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Graph Type</strong></td>
<td>From the drop-down list in the Graph Type field, choose the type of graph to display:</td>
</tr>
<tr>
<td></td>
<td>• <strong>SG</strong>—Display a Source, Group statistics graph.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Video Probe</strong>—Display statistics for a video probe.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Vidmon</strong>—Display statistics for a VidMon device.</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td>From the drop-down list in the Units field, choose the units for the graph. The units vary depending on the type of graph selected. For a SG graph, you can choose:</td>
</tr>
<tr>
<td></td>
<td>• <strong>PPS</strong>—Packets per second.</td>
</tr>
<tr>
<td></td>
<td>• <strong>BPS</strong>—Bits per second.</td>
</tr>
<tr>
<td></td>
<td>For a Video Probe graph, you can choose:</td>
</tr>
<tr>
<td></td>
<td>• <strong>DF</strong>—Delay Factor.</td>
</tr>
<tr>
<td></td>
<td>• <strong>MLR</strong>—Media Loss Rate.</td>
</tr>
<tr>
<td></td>
<td>For a VidMon device graph, you can choose:</td>
</tr>
<tr>
<td></td>
<td>• <strong>DF</strong>—Delay Factor.</td>
</tr>
<tr>
<td></td>
<td>• <strong>MLR</strong>—Media Loss Rate.</td>
</tr>
<tr>
<td></td>
<td>• <strong>MRV</strong>—Media Rate Variation.</td>
</tr>
</tbody>
</table>
Step 5  
Click the **Submit** button to submit the settings for the graph. 
The Graphs page displays a graph for the selected graph type.

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### Table 2-1  
**Graph Settings Options**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domain</td>
<td>From the drop-down list, chose the domain for the device.</td>
</tr>
<tr>
<td>Device</td>
<td>From the drop-down list, chose a device.</td>
</tr>
<tr>
<td>Interface</td>
<td>The Interface field is available only for VidMon devices. From the drop-down list, choose the interface to monitor for the graph.</td>
</tr>
<tr>
<td>Direction</td>
<td>The direction field is available only for VidMon devices. From the drop-down list, choose <strong>Inbound</strong> or <strong>Outbound</strong>.</td>
</tr>
<tr>
<td>Source</td>
<td>From the drop-down list, choose a source address.</td>
</tr>
<tr>
<td>Group</td>
<td>From the drop-down list, choose a group address</td>
</tr>
<tr>
<td>Refresh Rate</td>
<td>From the drop-down list, choose a refresh rate.</td>
</tr>
</tbody>
</table>