



Real-Time Monitoring Configuration

This chapter contains the following information for configuring the Cisco Unified CallManager Real-Time Monitoring Tool (RTMT).

- [Installing the Real-Time Monitoring Tool \(RTMT\), page 18-1](#)
- [Uninstalling RTMT, page 18-2](#)
- [Using RTMT, page 18-3](#)
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- [Working with Configuration Profiles, page 18-5](#)
- [Working with Predefined Objects, page 18-7](#)
- [Working with Devices, page 18-10](#)
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Tip

For information on alert, performance monitoring, trace collection, and syslog viewer configuration, see the [“Where to Find More Information”](#) section on page 18-18.

Installing the Real-Time Monitoring Tool (RTMT)

You can install RTMT, which works for resolutions 800*600 and above, on a Windows 98, Windows XP, Windows 2000, or Red Hat Linux with KDE and/or Gnome client.



Tip

Ensure that the RTMT version that you install is compatible with the Cisco Unified CallManager version that runs in your cluster; for example, the RTMT version that supports Cisco Unified CallManager 4.X does not support Cisco Unified CallManager 5.X, but the RTMT version that supports Cisco Unified CallManager 5.0 supports Cisco Unified CallManager 5.1.

To monitor Cisco Unified CallManager 4.X and 5.X clusters simultaneously, you must install multiple versions of RTMT (one version per Cisco Unified CallManager release). If you install multiple versions of the plug-in, you can install the versions on the same client as long as the versions exist in different folders. If the installation detects another version in the folder, a message displays. To continue the installation, install the version in a different folder.

To install the tool, perform the following procedure:

Procedure

-
- Step 1** From Cisco Unified CallManager Administration, choose **Application > Plugins**.
- Step 2** Click the **Find** button.
- Step 3** To install the RTMT tool on a client that is running the Microsoft Windows operating system, click the **Download** link for the Cisco Unified CallManager Real-Time Monitoring Tool-Windows. To install the RTMT tool on a client that is running the Linux operating system, click the **Download** link for the Cisco Unified CallManager Real-Time Monitoring Tool-Linux.
- Step 4** Download the executable to the preferred location on your client.
- Step 5** To install the Windows version, double-click the RTMT icon that displays on the desktop or locate the directory where you downloaded the file and run the RTMT installation file.
- The extraction process begins.
- Step 6** To install the Linux version, ensure that the file has execute privileges; for example, enter the following command, which is case sensitive: **chmod +x CcmServRtmtPlugin.bin**
- Step 7** After the RTMT welcome window displays, click **Next**.
- Step 8** To accept the license agreement, click **I accept the terms of the license agreement**; then, click **Next**.
- Step 9** Choose the location where you want to install RTMT. If you do not want to use the default location, click **Browse** and navigate to a different location. Click **Next**.
- Step 10** To begin the installation, click **Next**.
- The Setup Status window displays. Do not click Cancel.
- Step 11** To complete the installation, click **Finish**.
-

Additional Information

See the [Related Topics, page 18-18](#).

Uninstalling RTMT



Tip

When you use the tool (RTMT), it saves user preferences and downloaded module jar files (the cache) locally on the client machine. The system saves the cache in the Cisco Unified CallManager database. When you uninstall RTMT, you choose whether to delete or save the cache.

On a Windows client, you uninstall RTMT through **Add/Remove Programs** under the Control Panel. (Choose **Start > Settings > Control Panel > Add/Remove Programs**.)

To uninstall RTMT on a Red Hat Linux with KDE and/or Gnome client, choose **Start > Accessories > Uninstall Real-time Monitoring tool** from the task bar.

Additional Information

See the [Related Topics, page 18-18](#).

Using RTMT

Before You Begin

Before you can use RTMT, you must activate the Cisco AMC Service on each node in the cluster. From Cisco Unified CallManager Serviceability, choose **Tools > Service Activation** and check the **Cisco AMC Service** check box. Click **Update**.

Procedure

- Step 1** After you install the plug-in, perform one of the following tasks:
- From your Windows desktop, double-click the **Cisco Unified CallManager Real-Time Monitoring Tool** icon.
 - Choose **Start > Programs > Cisco CallManager Serviceability > Real-Time Monitoring Tool > Real-Time Monitoring Tool**.

The Real-Time Monitoring Tool Login window displays.

- Step 2** In the Host IP Address field, enter either the IP address or host name of the first node.
- Step 3** In the User Name field, enter the CCMAAdministrator application user username; for example, the default username for this user equals **CCMAAdministrator**.
- Step 4** In the Password field, enter the CCMAAdministrator application user password that you established for the username.



Note

If the authentication fails or if the server is unreachable, the tool prompts you to reenter the server and authentication details, or you can click the Cancel button to exit the application. After the authentication succeeds, RTMT launches the monitoring module from local cache or from a remote node, when the local cache does not contain a monitoring module that matches the backend Cisco Unified CallManager version.

- Step 5** Enter the port that the application will use to listen to the server. The default setting equals 8443.
- Step 6** Check the **Secure Connection** check box.
- Step 7** Click **OK**.
- Step 8** Add the certificate store by clicking **Yes**.
- Step 9** See the following list for tasks that you can perform in RTMT:
- To configure the mail server for e-mail alerts, see the [“Configuring E-mail Notification” section on page 18-4](#).
 - To create configuration profiles, see the [“Adding Configuration Profiles” section on page 18-5](#).
 - To monitor predefined objects, see the [“Working with Predefined Objects” section on page 18-7](#).
 - To work with devices, see the [“Working with Devices” section on page 18-10](#).
 - To work with CTI applications, devices, and lines, see the [“Working with CTI Applications, Devices, and Lines” section on page 18-13](#).
 - To work with Alerts, see “Alert Configuration in RTMT” in the *Cisco CallManager Serviceability Administration Guide, Release 5.0(4)*.
 - To work with performance monitoring objects, see the “Configuring and Using Performance Monitoring” section in the *Cisco CallManager Serviceability Administration Guide, Release 5.0(4)*.

- To collect and view traces, see the “Trace Collection and Log Central in RTMT” in the *Cisco CallManager Serviceability Administration Guide, Release 5.0(4)*.
- To use SysLog Viewer, see the “Using SysLog Viewer in RTMT” in the *Cisco CallManager Serviceability Administration Guide, Release 5.0(4)*.
- To configure the trace setting for RTMT, choose **Edit > Trace Setting**. Click the radio button that applies.
- To hide the Quick Launch Channel, which is the pane that displays on the left side of the window, choose **Edit > Hide Quick Launch Channel**.
To display the Quick Launch Channel after it is hidden, choose **Edit > Hide Quick Launch Channel**.
- To close a monitoring window, choose **Window > Close**. To close all monitoring windows that display, choose **Window > Close All Windows**.
- To access Cisco Unified CallManager Administration or Cisco Unified CallManager Serviceability from the RTMT window, choose **Application > CCMAdmin webpage** (or **CCM Serviceability webpage**).
- To access the Serviceability Report Archive option from RTMT, choose **System > Report Archive**. If the Security Alert window displays, click **Yes**. Enter the administrative user name and password for the server; then, click **OK**.
- To determine the RTMT version that is installed, choose **Help > About**. The version information displays in the window. After you view the information, click **OK**.
- To access documentation for RTMT, choose **Help > Help Topics** (or **For this Window**). For additional information on RTMT or Cisco Unified CallManager Serviceability, refer to the *Cisco Unified CallManager Serviceability System Guide, Release 5.0(4)*, and the *Cisco Unified CallManager Serviceability Administration Guide, Release 5.0(4)*.
- To monitor JVM information, click **System > JVM Information**. The JAVA heap memory usage displays in the window. Click **OK**.
- To log out of RTMT, choose **System > Log Off**. Performing this task logs off the current user, and the Real-Time Monitoring Tool Login window displays.
- To exit the application, choose **System > Exit**. Performing this task closes the application.

Additional Information

See the [Related Topics, page 18-18](#).

Configuring E-mail Notification

To configure e-mail notification, perform the following procedure:

Procedure

- Step 1** In the Mail Server field, enter the e-mail recipient information.
- Step 2** In the Port field, enter the port number of the mail server.

Step 3 Click **OK**.

Additional Information

See the [Related Topics, page 18-18](#).

Working with Configuration Profiles

This section provides information on the following topics:

- [Using the Default Configuration Profile, page 18-5](#)
- [Adding Configuration Profiles, page 18-5](#)
- [Restoring Profiles, page 18-6](#)
- [Deleting Configuration Profiles, page 18-6](#)

Using the Default Configuration Profile

When you initially load RTMT, the system includes a default profile that is called CM-Default. The first time that you use RTMT, it will use the CM-Default profile and display the summary page in the monitor pane. CM-Default monitors all registered phones dynamically in all the Cisco Unified CallManager nodes. If your cluster includes five Cisco Unified CallManager-configured nodes, CM-Default displays all registered phones for each node in a Cisco Unified CallManager cluster, as well as calls in progress and active gateway ports and channels.

See the “[Adding Configuration Profiles](#)” section on [page 18-5](#) for information on how to create your own configuration profile.

Additional Information

See the [Related Topics, page 18-18](#).

Adding Configuration Profiles

After you open multiple monitoring windows in RTMT (such as CPU & Memory, SDL Queue, and performance counters), you can create your own configuration profiles, so you can restore these monitoring windows in a single step rather than opening each window again. You can switch between different profiles during the same RTMT session or use the configuration profile in subsequent RTMT sessions.

The following procedure describes how to create a profile.

Procedure

Step 1 Choose **System > Profile**.

The Preferences dialog box displays.

Step 2 Click **Save**.

The Save Current Configuration dialog box displays.

- Step 3** In the Configuration name field, enter a name for this particular configuration profile.
- Step 4** In the Configuration description field, enter a description of this particular configuration profile.



Note You can enter whatever you want for the configuration profile name and description.

The system creates the new configuration profile.

Additional Information

See the [Related Topics, page 18-18](#).

Restoring Profiles

Perform the following procedure to restore a profile that you configured:

Procedure

- Step 1** Choose **System > Profile**.
The Preferences dialog box displays.
- Step 2** Click the profile that you want to restore.
- Step 3** Click **Restore**.
All windows with precanned settings and/or performance monitoring counters for the restored configuration open.

Additional Information

See the [Related Topics, page 18-18](#).

Deleting Configuration Profiles

Perform the following procedure to delete a profile that you configured:

Procedure

- Step 1** Choose **System > Profile**.
The Preferences dialog box displays.
- Step 2** Click the profile that you want to delete.
- Step 3** Click **Delete**.
- Step 4** Click **Close**.

Additional Information

See the [Related Topics](#), page 18-18.

Working with Predefined Objects

The tool (RTMT) provides a set of default monitoring objects that monitor the health of the system. Default objects include performance counters or critical event status for services that are supported with Cisco Unified CallManager.

This section provides information on the following topics:

- [Viewing/Monitoring a Predefined Object](#), page 18-7
- [Working with Devices](#), page 18-10
- [Working with CTI Applications, Devices, and Lines](#), page 18-13

Viewing/Monitoring a Predefined Object

The monitoring pane for a category, that is, a predefined object, displays the activities of predefined monitoring objects. The following procedure describes how to view information for a category.

Procedure

- Step 1** To view or monitor a category, perform one of the following tasks:
- In the Quick Launch Channel, click the **View** tab. Then, click a category; for example, Summary, Server, Call Process, and so on. If an icon displays for the category, click the icon to display the information that you want to monitor.
 - Depending on which category you want to display, choose one of the following options from [Table 18-1](#):

Table 18-1 **Menu Path for Categories**

Category	Menu Path	Data that Displays
Summary	Monitor > Summary	Displays memory usage, CPU usage, registered phones, calls in progress, and active gateway ports and channels
Server	Monitor > Server > CPU Usage and Memory (or Process, Disk Usage, or Critical Services)	• CPU Usage and Memory—Displays memory and CPU usage • Process—Displays the process name, process ID (PID) and percentage of CPU and memory that is used by the process, the resident and shared memory, and the Nice (level) • Disk Usage—Displays the percentage of disk usage per the largest partition in each host • Critical Services—Displays the services for a specific server

Table 18-1 **Menu Path for Categories (continued)**

Category	Menu Path	Data that Displays
Call Process	Monitor > Call Process > Call Activity (or Gateway Activity, Trunk Activity, SDL Queue, or SIP Activity)	• Call Activity—Displays the call activity for each Cisco Unified CallManager server in the cluster, including calls completed, calls attempted, and calls in progress • Gateway Activity—Displays gateway activity for the Cisco Unified CallManager cluster, including active ports, ports in service, and calls completed • Trunk Activity—Displays the trunk activity for the Cisco Unified CallManager cluster, including calls in progress and calls completed • SDL Queue—Displays SDL queue information, including number of signals in queue and number of processed signals. • SIP Activity—Displays SIP activity for each Cisco Unified CallManager server in the cluster, including summary requests, summary responses, summary of failure responses in, summary of failure responses out, retry requests out, and retry responses out
Service	Monitor > Service > Cisco TFTP (or Heartbeat or Database Summary)	• Cisco TFTP—Displays Cisco TFTP status for each Cisco Unified CallManager server in the cluster, including total TFTP requests, total TFTP requests found, and total TFTP requests aborted • Heartbeat—Displays heartbeat information for the Cisco Unified CallManager, Cisco TFTP, and the Cisco CallManager Attendant Console service • Database Summary—Displays summary information for the database on the Cisco Unified CallManager server, including change notification requests that are queued in the database, change notification requests that are queued in memory, total number of clients connected, and the number of device resets that are in the queue

Table 18-1 **Menu Path for Categories (continued)**

Category	Menu Path	Data that Displays
Device	Monitor > Device Summary (or Phone Summary)	Device Summary displays information for each Cisco Unified CallManager server in the cluster, including the number of registered phone devices, registered gateway devices, and registered media resource devices. Device Search displays cluster name and device types in tree hierarchy and allows you to query for information on phones and devices. Phone Summary displays information for each Cisco Unified CallManager server in the cluster, including the number of registered phones, registered SIP phones, registered SCCP phones, partially registered phones, and the number of failed registration attempts. Tip Instead of choosing Monitor > Device Summary or Monitor > Phone Summary, you can choose Device > Open Device Search to display the cluster name and device or phone types in the tree hierarchy. Tip To monitor devices, you must perform additional configuration steps, as described in the “Finding Specific Devices to Monitor” section on page 18-10.
CTI Manager	Monitor > CTI Manager	Displays cluster name and CTI types (application, device, and line) in tree hierarchy To monitor specific CTI types, you must perform additional configuration steps, as described in the following sections: • Finding CTI Applications to Monitor, page 18-14 • Finding CTI Devices to Monitor, page 18-14 • Finding CTI Lines to Monitor, page 18-15 You cannot choose CTI Manager by using the menu bar. To monitor the number of open devices, lines, and CTI connections in a single window for each Cisco Unified CallManager server in the cluster, see the “Working with Devices” section on page 18-10.
Performance	Performance > Open Performance	Displays perfmon counters. For more information on using perfmon counters, see the “Configuring and Using Performance Monitoring” in the <i>Cisco CallManager Serviceability Administration Guide, Release 5.0(4)</i>.

- Step 2** Some categories allow you to choose a specific server or device type to monitor. To choose a specific server or device type to monitor, perform one of the following tasks in the panes that are listed:
- CPU and Memory Usage pane—To monitor CPU and memory usage for specific server, choose the server from the Host drop-down list box.
 - Disk Usage pane—To monitor disk usage for a specific server, choose the server from the Disk Usage at Host drop-down list box.
 - Critical Services pane—To monitor critical services for a specific server, choose the server from the Critical Services at Host drop-down list box.

- Gateway Activity pane—To monitor the gateway activity for a specific gateway type, choose the gateway type from the Gateway Type drop-down list box.
- Trunk Activity pane—To monitor the trunk activity for a specific trunk type, choose the trunk type from the Trunk Type drop-down list box.
- SDL Queue pane—To monitor the SDL queue information for a specific SDL queue type, choose the type from the SDL Queue Type drop-down list box.

**Tip**

To zoom in on the monitor of a predefined object, click and drag the left mouse button over the area of the chart in which you are interested. Release the left mouse button when you have the selected area. RTMT updates the monitored view. To zoom out and reset the monitor to the initial default view, press the “R” key.

Additional Information

See the [Related Topics, page 18-18](#).

Working with Devices

This section contains information on the following topics:

- [Finding Specific Devices to Monitor, page 18-10](#)
- [Viewing Phone Information, page 18-12](#)
- [Viewing Device Properties, page 18-12](#)
- [Configuring Polling Rate for Devices and Performance Monitoring Counters, page 18-13](#)

Finding Specific Devices to Monitor

By performing the following procedure, you can monitor data for the following device types:

- Phones
- Gateway Devices
- H.323 Devices
- CTI Devices
- Voice Mail Devices
- Media Resources
- Hunt List
- SIP Trunk

Procedure

Step 1 Perform one of the following tasks:

- Choose **Search > Device >** <device type; for example, **Phone, Gateway, Hunt List**, and so on>. A device selection window displays where you enter the search criteria. Go to [Step 4](#).

- In the quick launch channel, click **Device**; then, click the **Device Search** icon.
- Choose **Device > Open Device Search**.

The Device Search window displays the cluster names and tree hierarchy that lists all device types that you can monitor.



Tip After you display the Device Search or CTI Search panes, you can right-click a device type and choose **CCMAdmin** to go to Cisco Unified CallManager Administration.

Step 2 To find all devices in the cluster or to view a complete list of device models from which you can choose, right-click the cluster name and choose **Monitor**.

Step 3 To monitor a specific device type, right-click or double-click the device type from the tree hierarchy.



Tip If you right-click the device type, you must choose **Monitor** for the device selection window to display.

Step 4 In the Select device with status window, click the radio button that applies.

Step 5 In the drop-down list box next to the radio button that you clicked, choose **Any CallManager** or a specific Cisco Unified CallManager server for which you want the device information to display.



Tip In the remaining steps, you can choose the **< Back**, **Next >**, **Finish**, or **Cancel** buttons.

Step 6 Click the **Next >** button.

Step 7 In the Search by device model pane, click the radio button that applies.



Tip If you chose **Device Model**, choose the device type for which you want the device information to display.

Step 8 Click **Next**.

Step 9 In the Search with name pane, click one of the following radio buttons and enter the appropriate information in the corresponding fields, if required.

Step 10 Click **Next**.

Step 11 In the Monitor following attributes pane, check one or all of the search attributes.

Step 12 Click **Finish**.

Additional Information

See the [Related Topics, page 18-18](#).

Viewing Phone Information

You can view information about phones that display in the RTMT device monitoring pane. This section describes how to view phone information.

Procedure

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- Step 1** To display the phone in the RTMT device monitoring pane, see the [“Finding Specific Devices to Monitor” section on page 18-10](#).
- Step 2** Perform one of the following tasks:
- Right-click the phone for which you want information to display and choose **Open**.
 - Click the phone and choose **Device > Open**.
- Step 3** In the Select Device with Status pane, click the radio button that applies.
- Step 4** In the drop-down list box next to the radio button that you clicked, choose **Any CallManager** or a specific Cisco Unified CallManager server for which you want the device information to display.
- Step 5** In the Search By Device Model pane, choose the phone protocol that you want to display.
- Step 6** Click the **Any Model** or **Device Model** radio button. If you click the Device Model radio button, choose a particular phone model that you want to display.
- Step 7** Click **Next**.
- Step 8** In the Search With Name pane, click the radio button that applies and enter the appropriate information in the corresponding fields.
- Step 9** In the Monitor following attributes pane, check one or all of the search attributes.
- Step 10** Click **Finish**.
- The Device Information window displays. For more information on the device, choose any field that displays in the left pane of the window.
-

Additional Information

See the [Related Topics, page 18-18](#).

Viewing Device Properties

You can view the properties of devices that display in the RTMT device monitoring pane. This section describes how to view device properties.

Procedure

-
- Step 1** Display the device in the RTMT device monitoring pane. See the [“Finding Specific Devices to Monitor” section on page 18-10](#).
- Step 2** Perform one of the following tasks:
- Right-click the device for which you want property information and choose **Properties**.
 - Click the device for which you want property information and choose **Device > Properties**.
- Step 3** To display the device description information, click the **Description** tab.

Step 4 To display other device information, click the **Other Info** tab.

Additional Information

See the [Related Topics, page 18-18](#).

Configuring Polling Rate for Devices and Performance Monitoring Counters

Cisco Unified CallManager polls counters, devices, and gateway ports to gather status information. In the RTMT monitoring pane, you configure the polling intervals for the performance monitoring counters and devices.



Note

High-frequency polling rate may adversely affect Cisco Unified CallManager performance. The minimum polling rate for monitoring a performance counter in chart view equals 5 seconds; the minimum rate for monitoring a performance counter in table view equals 1 second. The default value for both equals 10 seconds.

The default value for devices equals 10 minutes.

Perform the following procedure to update the polling rate:

Procedure

- Step 1** Display the device or performance monitoring counter in the RTMT monitoring pane.
- Step 2** Click the device and choose **Edit > Polling Rate**.
- Step 3** In the Polling Interval pane, specify the time that you want to use.
- Step 4** Click **OK**.
-

Additional Information

See the [Related Topics, page 18-18](#).

Working with CTI Applications, Devices, and Lines

This section contains information on the following topics:

- [Viewing CTI Manager Information, page 18-14](#)
- [Finding CTI Applications to Monitor, page 18-14](#)
- [Finding CTI Devices to Monitor, page 18-14](#)
- [Finding CTI Lines to Monitor, page 18-15](#)
- [Viewing Application Information, page 18-16](#)

Viewing CTI Manager Information

To display a chart of open devices, lines, and CTI connections for each Cisco Unified CallManager server in the cluster, click **CTI** in the quick launch channel; then, click the **CTI Manager** icon.

Additional Information

See the [Related Topics](#), page 18-18.

Finding CTI Applications to Monitor

Perform the following procedure to find specific CTI applications to monitor:

Procedure

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- Step 1** Perform one of the following tasks:
- Choose **Search > CTI > CTI Applications**; the selection window displays where you can enter the search criteria. Go to [Step 3](#).
 - In the quick launch channel, click **CTI**; then, click the **CTI Search** icon. The CTI search window displays the cluster names and tree hierarchy that lists all CTI types that you can monitor.
- Step 2** From the tree hierarchy, right-click or double-click **Applications**:
-  **Tip** If you right-click the option, choose **Monitor**.
-
- Step 3** From the CTI Manager drop-down list box, choose the CTI Manager that you want to monitor.
- Step 4** From the Applications Status drop-down list box, choose the application status.
- Step 5** Click **Next**.
- Step 6** In the Application Pattern pane, click the radio button that applies.
- Step 7** Enter the information in the field for the radio button that you clicked; for example, if you clicked the IP Subnet radio button, enter the IP address and the subnet mask in the field.
- Step 8** Click **Next**.
- Step 9** In the Monitor following attributes window, check one or all of the check boxes for the attributes that you want to monitor.
- Step 10** Click **Finish**.
- The applications monitoring pane displays the information that you chose.
-

Additional Information

See the [Related Topics](#), page 18-18.

Finding CTI Devices to Monitor

Perform the following procedure to find specific CTI devices to monitor.

Procedure

-
- Step 1** Perform one of the following tasks:
- Choose **Monitor > CTI > CTI Devices**; the selection window where you can enter the search criteria displays. Go to [Step 3](#).
 - In the quick launch channel, click **CTI**; then, click the **CTI Search** icon. The CTI search window displays the cluster names and tree hierarchy that lists all CTI types that you can monitor.
- Step 2** From the tree hierarchy, right-click or double-click **Devices**.
-  **Tip** If you right-click the option, choose **Monitor**.
-
- Step 3** From the CTI Manager drop-down list box, choose the CTI Manager that you want to monitor.
- Step 4** From the Devices Status drop-down list box, choose the device status.
- Step 5** In the Devices pane, click the radio button that applies.
-  **Tip** If you chose **Device Name**, enter the device name in the field.
-
- Step 6** Click **Next**.
- Step 7** In the Application Pattern window, click the radio button that applies.
- Step 8** Enter the information in the field for the radio button that you clicked; for example, if you clicked IP Subnet, enter the IP address and subnet mask in the field.
- Step 9** Click **Next**.
- Step 10** In the Monitor following attributes window, check one or all check boxes for the attributes that you want to monitor.
- Step 11** Click **Finish**.
- The devices monitoring pane displays the information that you chose.
-

Additional Information

See the [Related Topics, page 18-18](#).

Finding CTI Lines to Monitor

Perform the following procedure to find specific CTI lines to monitor.

Procedure

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- Step 1** Perform one of the following tasks:
- Choose **Monitor > CTI > CTI Lines**; the selection window displays where you can enter the search criteria. Go to [Step 3](#).
 - In the quick launch channel, click **CTI**; then, click the **CTI Search** icon. The CTI search window displays the cluster names and tree hierarchy that lists all CTI types that you can monitor.

Step 2 From the tree hierarchy, right-click or double-click **Lines**.



Tip If you right-click the option, choose **Monitor**.

Step 3 From the CTI Manager & Status drop-down list box, choose the CTI manager that you want to monitor.

Step 4 From the Lines Status drop-down list box, choose the status.

Step 5 In the Devices pane, click the radio button that applies.



Tip If you chose **Device Name**, enter the device name in the field.

Step 6 In the Lines pane, click the radio button that applies:



Note If you chose **Directory Number**, enter the directory number in the field.

Step 7 Click **Next**.

Step 8 In the Application Pattern pane, click the radio buttons apply:

Step 9 Enter the information in the field for the radio button that you clicked; for example, if you clicked IP Subnet, enter the IP address and subnet mask in the field.

Step 10 Click **Next**.

Step 11 In the Monitor following attributes window, check one or all check boxes for the attributes that you want to monitor.

Step 12 Click **Finish**.

The lines monitoring pane displays the information that you chose.

Additional Information

See the [Related Topics](#), page 18-18.

Viewing Application Information

You can view the application information for selected devices such as the Cisco IP Phone, CTI port, and CTI route point. This section describes how to view application information.

Procedure

Step 1 Display the devices in the RTMT monitoring pane, as described in the [“Finding CTI Devices to Monitor” section on page 18-14](#).

Step 2 Perform one of the following tasks:

- Right-click the device for which you want application information; for example, CTI; then, choose **App Info**.
- Click the device for which you want application information and choose **Device > App Info**.

The Application Information window displays the CTI manager node name, application ID, user ID, application IP address, application status, app time stamp, device time stamp, device name, and CTI device open status.

Step 3 To view updated information, click **Refresh**. To close the window, click **OK**.

Additional Information

See the [Related Topics, page 18-18](#).

Working with Categories

Categories allow you to monitor performance monitoring counters and devices. For example, the default category, CallManager, allows you to monitor six performance monitoring counters in graph format. If you want to monitor more counters, you can configure a new category and display the data in table format.

If you perform various searches for devices, for example, for phones, gateways, and so on, you can create a category for each search and save the results in the category.

Adding a Category

To add a category, perform the following procedure:

Procedure

Step 1 Display the Performance Monitoring or Devices tree hierarchy.

Step 2 Choose **Edit > Add New Category**.

Step 3 Enter the name of the category; click **OK**.

The category tab displays at the bottom of the window.

Additional Information

- See the [Related Topics, page 18-18](#).

Renaming a Category

To rename a category, perform the following procedure:

Procedure

Step 1 Perform one of the following tasks:

- Right-click the category tab that you want to rename and choose **Rename Category**.
- Click the category tab that you want to rename and choose **Edit > Rename Category**.

- Step 2** Enter the new name and click **OK**.
The renamed category displays at the bottom of the window.
-

Additional Information

- See the [Related Topics](#), page 18-18.

Deleting a Category

To delete a category, perform one of the following tasks:

- Right-click the category tab that you want to delete and choose **Remove Category**.
- Click the category tab that you want to delete and choose **Edit > Remove Category**.

Additional Information

See the [Related Topics](#), page 18-18.

Where to Find More Information

- Alert Configuration in RTMT, *Cisco CallManager Serviceability Administration Guide, Release 5.0(4)*
- Configuring and Using Performance Monitoring, *Cisco CallManager Serviceability Administration Guide, Release 5.0(4)*
- Trace Collection and Log Central in RTMT, *Cisco CallManager Serviceability Administration Guide, Release 5.0(4)*
- [Real-Time Monitoring Tool](#), *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*
- Alerts, *Cisco Unified CallManager Serviceability System Guide, Release 5.0(4)*
- [Performance Objects and Counters](#), *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*

Additional Information

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- [Configuring and Using Performance Monitoring, *Cisco CallManager Serviceability Administration Guide, Release 5.0\(4\)*](#)
- [Working with Devices, page 18-10](#)
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- [Working with Predefined Objects, page 18-7](#)
- [Alert Configuration in RTMT, *Cisco CallManager Serviceability Administration Guide, Release 5.0\(4\)*](#)
- [Using SysLog Viewer in RTMT, *Cisco CallManager Serviceability Administration Guide, Release 5.0\(4\)*](#)
- [Installing the Real-Time Monitoring Tool \(RTMT\), page 18-1](#)
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