



## CHAPTER 2

# Working with Devices

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This chapter describes how to add call processors, unified message processors, and unified presence processors to Provisioning Manager.

To use Provisioning Manager, you must first add the IP communications infrastructure devices that are part of your IP telephony environment.

Call Processors are proxies for each instance of a Cisco Unified Communications Manager or Cisco Unified Communications Manager Express device. Unified Message Processors are proxies for each instance of a Cisco Unity, Cisco Unity Express, or Cisco Unity Connection device. Unified Presence Processors are proxies for each instance of Cisco Unified Presence.

Provisioning Manager also provides support for Cisco IOS routers. When a Cisco IOS router device is added to Provisioning Manager, it appears in Provisioning Manager as a Generic IOS Router. Through the Generic IOS Router capability, Provisioning Manager can configure additional voice functionality on the router.



### Note

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Some devices can have more than one capability. If you are adding a device that has more than one capability, you only need to add the device once. You can add the capabilities during its initial setup, or update the capabilities through the Update Device page (see [Viewing/Updating Devices, page 2-8](#)) after the device has been added.

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This chapter contains the following sections:

- [Adding a Cisco Unified Communications Manager Device, page 2-2](#)
- [Adding a Cisco Unified Communications Manager Business Edition Device, page 2-2](#)
- [Adding a Cisco Unified Communications Manager Express Device, page 2-4](#)
- [Adding a Cisco Unity Device, page 2-4](#)
- [Adding a Cisco Unity Connection Device, page 2-5](#)
- [Adding a Cisco Unity Express Device, page 2-6](#)
- [Adding a Cisco Unified Presence Device, page 2-6](#)
- [Adding a Cisco IOS Router Device, page 2-7](#)
- [Viewing/Updating Devices, page 2-8](#)
- [Deleting Devices, page 2-9](#)

## Adding a Cisco Unified Communications Manager Device

This section describes the procedure for adding a Cisco Unified Communications Manager device to Provisioning Manager.



### Note

Before you can create Call Processors in Provisioning Manager, you must make sure the Cisco Unified Communications Manager device is configured correctly. For details on configuring these devices, see the “Preparing End Systems” section in *Installation Guide for Cisco Prime Unified Provisioning Manager*.

**Step 1** Choose **Infrastructure > Set Up Devices > Devices**.

The Device Configuration page appears.

**Step 2** Click **New Device**.

**Step 3** Enter the following information for the device (for explanations of the fields, see [Table 2-2](#)):

- Name.
- IP address.
- Device type—Select **Media Server**.
- Select a capability/application—Select **Unified CM**.

**Step 4** Click **Save**.

A message appears, stating that the device was created.

**Step 5** Configure the device. A link (Configure Unified CM) appears on the Device Configuration page (for details, see [Configuring a Cisco Unified Communications Manager Call Processor, page 2-11](#)).

## Adding a Cisco Unified Communications Manager Business Edition Device

This section describes the procedure for adding a Cisco Unified Communications Manager Business Edition device to Provisioning Manager.



### Note

Before you can create Call Processors in Provisioning Manager, you must make sure the Cisco Unified Communications Manager device is configured correctly. For details on configuring these devices, see the “Preparing End Systems” section in *Installation Guide for Cisco Prime Unified Provisioning Manager*.

**Step 1** Choose **Infrastructure > Set Up Devices > Devices**.

The Device Configuration page appears.

**Step 2** Click **New Device**.

**Step 3** Enter the following information for the device (for explanations of the fields, see [Table 2-2](#)):

- Name.
- IP address.

- Device type—Select **Media Server**.
  - Select a capability/application—Select **Unified CM**.
- Step 4** Click **Save**.
- A message appears, stating that the device was created.
- Step 5** Configure the device. Two links (Configure Unified CM and Configure Unity Connection) appear on the Device Configuration page (for details, see [Configuring a Cisco Unified Communications Manager Call Processor, page 2-11](#) and [Configuring a Cisco Unity Connection Unified Message Processor, page 2-20](#)).
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## Working with a Cisco Unified Communications Manager Business Edition Device

When working with Cisco Unified Communications Manager Business Edition, be aware of the following:

- When adding a Cisco Unified Communications Manager and Cisco Unity Connection that are part of a Cisco Unified Communication Management Business Edition device as standalone processors in Provisioning Manager, follow these guidelines:
  - A Cisco Unified Communications Manager that is part of a Cisco Unified Communications Manager Business Edition device can be paired with any other standalone Unified Messaging Processor. However, it must not be a part of the same Cisco Unified Communications Management Business Edition device or the Cisco Unity Connection that is co-resident in the same Cisco Unified Communications Manager Business Edition device.




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**Note** To pair the co-resident Cisco Unified Communications Manager and Cisco Unity Connection, you must associate the co-resident Cisco Unity Connection with the co-resident Cisco Unified Communications Manager on the same server while configuring the Service Area.

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- A Cisco Unity Connection that is part of a Cisco Unified Communications Manager Business Edition cannot be combined with any other Call Processors that are not present in the same Cisco Unified Communications Manager Business Edition device.
- There are restriction for some subscriber products in Cisco Unified Communications Manager Business Edition.
  - A Cisco Unified Communications Manager Business Edition user can have only one voicemail and email in the same device.
  - A Pseudo user in Provisioning Manager cannot have a voicemail in a Cisco Unified Communications Manager Business Edition device.

## Adding a Cisco Unified Communications Manager Express Device

This section describes the procedure for adding a Cisco Unified Communications Manager Express device to Provisioning Manager.



### Note

Before you can create Call Processors in Provisioning Manager, you must make sure the Cisco Unified Communications Manager Express device is configured correctly. For details on configuring these devices, see the “Preparing End Systems” section in *Installation Guide for Cisco Prime Unified Provisioning Manager*.

**Step 1** Choose **Infrastructure > Set Up Devices > Devices**.

The Device Configuration page appears.

**Step 2** Click **New Device**.

**Step 3** Enter the following information for the Call Processor (for explanations of the fields, see [Table 2-2](#)):

- Name.
- IP address.
- Device type—Select **Cisco Router**.
- Device protocol.
- Username.
- Password (and confirm).
- Enable password (and confirm).
- Select a capability/application—Select **Unified CME**.

**Step 4** Click **Save**.

A message appears, stating that the device was created.

**Step 5** Configure the device. A link (Configure Unified CME) appears on the Device Configuration page (for details, see [Configuring a Cisco Unified Communications Manager Express Call Processor, page 2-12](#)).

## Adding a Cisco Unity Device

This section describes the procedure for adding a Cisco Unity device to Provisioning Manager.



### Note

Before you can create Unified Message Processors in Provisioning Manager, you must make sure the Cisco Unity device is configured correctly. For details on configuring these devices, see the “Preparing End Systems” section in *Installation Guide for Cisco Prime Unified Provisioning Manager*.

**Step 1** Choose **Infrastructure > Set Up Devices > Devices**.

The Device Configuration page appears.

**Step 2** Click **New Device**.

- Step 3** Enter the following information for the Unified Message Processor (for explanations of the fields, see [Table 2-5](#)):
- Name.
  - IP address.
  - Device Type—Select **Media Server**.
  - Capability/application—Select **Unity**.
- Step 4** Click **Save**.
- A message appears, stating that the device was created.
- Step 5** Configure the device. A link (Configure Unity) appears on the Device Configuration page (for details, see [Configuring a Cisco Unity Unified Message Processor, page 2-20](#)).
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## Adding a Cisco Unity Connection Device

This section describes the procedure for adding a Cisco Unity Connection device to Provisioning Manager.



### Note

Before you can create Unified Message Processors in Provisioning Manager, you must make sure the Cisco Unity Connection device is configured correctly. For details on configuring these devices, see the “Preparing End Systems” section in *Installation Guide for Cisco Prime Unified Provisioning Manager*.

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For Cisco Unity Connection clustering and failover support, be aware of the following:

- When adding a Cisco Unity Connection that includes a Cisco Unity Connection cluster server pair, add only the publisher server of the pair.
  - If the primary Cisco Unity Connection fails over to a secondary Cisco Unity Connection, you can change the IP address to the secondary device, and Provisioning Manager will communicate with the secondary device before failback occurs.
  - If a network has more than one location, individually add all of the locations for either the Cisco Unity Connection server or Cisco Unity Connection cluster to Provisioning Manager. Provisioning Manager manages only local subscribers and public distribution lists; it does not manage remote locations.
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- Step 1** Choose **Infrastructure > Set Up Devices > Devices**.
- The Device Configuration page appears.
- Step 2** Click **New Device**.
- Step 3** Enter the following information for the Unified Message Processor (for explanations of the fields, see [Table 2-5](#)):
- Name.
  - IP address.
  - Device Type—Select **Media Server**.
  - Capability/application—Select **Unity Connection**.

**Step 4** Click **Save**.

A message appears, stating that the device was created.

**Step 5** Configure the device.

A link (Configure Unity Connection) appears on the Device Configuration page (for details, see [Configuring a Cisco Unity Connection Unified Message Processor, page 2-20](#)).

## Adding a Cisco Unity Express Device

This section describes the procedure for adding a Cisco Unity Express device to Provisioning Manager. The connection to Cisco Unity Express should be in closed state, because it has only one session to connect. If the connection is open, synchronization and order operations will fail.

**Note**

Before you can create Unified Message Processors in Provisioning Manager, you must make sure the Cisco Unity Express device is configured correctly. For details on configuring these devices, see the “Preparing End Systems” section in *Installation Guide for Cisco Prime Unified Provisioning Manager*.

**Step 1** Choose **Infrastructure > Set Up Devices > Devices**.

The Device Configuration page appears.

**Step 2** Click **New Device**.**Step 3** Enter the following information for the device (for explanations of the fields, see [Table 2-5](#)):

- Name.
- IP address.
- Device type—Select **Cisco Router**.
- Device protocol.
- Username.
- Password (and confirm).
- Enable password (and confirm).
- Capability/application—Select **Unity Express**.

**Step 4** Click **Save**.

A message appears, stating that the device was created. Next you must configure the device. A link (Configure Unity Express) appears on the Device Configuration page (for details, see [Configuring a Cisco Unity Express Unified Message Processor, page 2-21](#)).

## Adding a Cisco Unified Presence Device

This section describes the procedure for adding a Cisco Unified Presence device to Provisioning Manager.

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- Step 1** Choose **Infrastructure > Set Up Devices > Devices**.  
The Device Configuration page appears.
- Step 2** Click **New Device**.
- Step 3** Enter the following information for the device (for explanations of the fields, see [Table 2-5](#)):
- Name.
  - IP address.
  - Device Type—Select **Media Server**.
  - Capability/application—Select **Unified Presence**.
- Step 4** Click **Save**.  
A message appears, stating that the device was created. Next you must configure the device. A link (Configure Unified Presence) appears on the Device Configuration page (for details, see [Configuring a Cisco Unified Presence Processor, page 2-25](#)).

**Note**

After the upgrade, new products in Presence will not be displayed as orderable products. You have to associate the new products to the user types. This is applicable for all new orderable products.

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## Adding a Cisco IOS Router Device

This section describes the procedure for adding a generic IOS router to Provisioning Manager. Once the device is created, you do not need to perform any further configurations.

[Table 2-1](#) describes the fields for adding a generic IOS router.

**Table 2-1**      **Generic IOS Router Fields**

Field	Description
Name	Cisco IOS router name. Valid values are space, alphanumeric characters (A-Z, a-z, 0-9), underscore (_), hyphen (-), period (.), and at sign (@).
IP Address	Router's IP address.
Device Type	The type of hardware that the application is installed on. Select Cisco Router.
Username	Username for the router.
Password (and confirm)	Password for the router.
Device Protocol	Protocol used to connect to the device.
Enable Password (and confirm)	Enable password for the router.
Capability/Application	The capability of the device or the application installed on the device.

- 
- Step 1** Choose **Infrastructure > Set Up Devices > Devices**.  
The Device Configuration page appears.

**Step 2** Click **New Device**.

**Step 3** Enter the following information for the device (for explanations of the fields, see [Table 2-1](#)):

- Name.
- IP address.
- Device type—Select **Cisco Router**.
- Device protocol.
- Username.
- Password (and confirm).
- Enable password (and confirm).
- Capability/application—Select **Generic IOS Router**.

**Step 4** Click **Save**.

A message appears, stating that the device was created. You can test the router's connection by clicking the **Test Router Connection** link that appears on the page (see [Testing Generic IOS Router Connections, page 2-29](#).)

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## Viewing/Updating Devices

After a device is added to Provisioning Manager, you can view its information and make changes to it.

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**Step 1** Choose **Infrastructure > Set Up Devices > Devices**.

The Device Configuration page appears.

**Step 2** Click **View Device**.

A search page appears, listing the available devices.

**Step 3** Select the device that you require.

The View Device page appears. The device information appears in the right pane.

**Step 4** If you want to update the information, in the Options pane, click **Update**.

The Update Device page appears

**Step 5** Edit the fields as required. (For explanations of the fields, see [Table 2-1](#), [Table 2-2](#), or [Table 2-5](#).)



**Note** You cannot change a device's device type, but you can change a device's capability.

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**Step 6** After you make your changes, click **Save**.

**Step 7** If you want to change the device's configuration, click **Configure** (the capability/application of the device appears next to Configure).

**Step 8** Make your changes.


**Step 9** Click **Save**.

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## Deleting Devices

To completely remove a device from Provisioning Manager, you must delete it through the Device Configuration page. If you just delete the existing Processor from Provisioning Manager, only the capability is removed.

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- Step 1** Put Provisioning Manager in maintenance mode.
- Step 2** Choose **Infrastructure > Set Up Devices > Devices**.  
The Device Configuration page appears.
- Step 3** Click **View Device**.  
A search page appears, listing the available devices.
- Step 4** Select the device that you require.  
The View Device page appears. The device information appears in the right pane.
- Step 5** In the Options pane, click **Delete Device**.  
A confirmation dialog box appears, asking you to confirm the deletion.
-  **Note** The system must be in maintenance mode for the Delete command to appear in the Options pane.
- Step 6** Click **OK**.  
The device deletion begins, with a progress bar displaying the status of the deletion in the Options pane.
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## Configuring Processors

This section provides information on how to configure and synchronize Call Processors and Unified Message Processors.

Synchronizing the data in the Cisco Unified Communications Manager and Cisco Unity systems with the Call Processors and Unified Message Processors, and then synchronizing with the Domains, populates Provisioning Manager with the existing active users and services, and provides a consolidated view of all of the infrastructure and subscriber information.

After a Domain synchronization, you can use Provisioning Manager to directly manage the individual user account. You no longer have to use the underlying Cisco Unified Communications Manager or Cisco Unity systems.

After a Call Processor or Unified Message Processor is created and synchronized, do not change the type of device for the processor. For example, if you create a Call Processor for Cisco Unified Communications Manager, do not change the Call Processor type to Cisco Unified Communications Manager Express.

Any out-of-band configurations (meaning configurations that are performed directly on the processor but not synchronized with Provisioning Manager) can result in failed orders. You must always keep Provisioning Manager synchronized with the processors that it is provisioning.

For more information, see the following sections:

- [Configuring Call Processors, page 2-10](#)
- [Changing Call Processor Information, page 2-13](#)
- [Synchronizing Call Processors, page 2-13](#)
- [Configuring Unified Message Processors, page 2-18](#)
- [Changing Unified Message Processor Information, page 2-21](#)
- [Synchronizing Unified Message Processors, page 2-22](#)
- [Configuring Unified Presence Processors, page 2-25](#)
- [Changing Unified Presence Processor Information, page 2-26](#)
- [Synchronizing Unified Presence Processors, page 2-26](#)

## Configuring Call Processors

After a device is added to Provisioning Manager, to complete the setup of the device, it must be configured to Provisioning Manager.

Table 2-2 describes the fields for configuring a Call Processor.



### Note

The fields that are displayed in the Configure a New Call Processor page depend on the device type and version that you select. Not all fields will appear.

**Table 2-2** Call Processor Fields

Field	Description
Name	Call Processor name. Valid values are space, alphanumeric characters (A-Z, a-z, 0-9), underscore (_), hyphen (-), period (.), and at sign (@).
Device Name	Name of the device.
Associated CUP Name	Name of the associated Cisco Unified Presence processor.
Type	The type of device (Cisco Unified Communications Manager or Cisco Unified Communications Manager Express). You cannot edit this field.
IP Address	IP address of the Cisco Unified Communications Manager or Cisco Unified Communications Manager Express.
Device Type	The type of hardware that the application is installed on: either a Media Server or a Cisco Router.
Version	Cisco Unified Communications Manager or Cisco Unified Communications Manager Express version number.
Device Protocol	Protocol used to communicate with the device.

**Table 2-2 Call Processor Fields (continued)**

Field	Description
LDAP Directory Integration	<p>This value must exactly match the value configured in Cisco Unified Communications Manager. If Cisco Unified Communications Manager is integrated with an external LDAP, subscribers are not created through Provisioning Manager; instead they are synchronized through Cisco Unified Communications Manager.</p> <p>While placing an order, if a subscriber is not available on Cisco Unified Communications Manager, the workflow subsystem waits for a predefined period of time (24 hours by default) for the subscriber to be available on Cisco Unified Communications Manager and then continues processing the order.</p> <p>The 24-hour period can be configured on Provisioning Manager in the <code>ipt.properties</code> file. Change the following settings:</p> <ul style="list-style-type: none"> <li>• <code>dfc.oem.extdir.retries</code>: 24</li> <li>• <code>dfc.oem.extdir.retry_interval</code>: 3600</li> </ul> <p><b>Note</b> LDAP directory integration is available only for Cisco Unified Communications Manager versions 5.0 and later.</p>
User Name	Username based on the protocol selected.
Password (and confirm)	Password for the Cisco Unified Communications Manager or Cisco Unified Communications Manager Express username.
Enable Password (and confirm)	The enable password configured on Cisco Unified Communications Manager Express.
Capability/Application	The capability of the device or the application installed on the device.
<b>Extension Mobility Details (Optional)</b>	
Service Name	The name of the Extension Mobility Service configured on a Call Processor.
Service URL	<p>The URL of the Extension Mobility Service configured on the Call Processor:  <code>http://IPAddress/emapp/EMAppServlet?device=#DEVICENAME#</code></p> <p>Where <i>IPAddress</i> is the name or the IP address of the server where Extension Mobility is installed.</p>

## Configuring a Cisco Unified Communications Manager Call Processor

This section describes the procedure for configuring a Call Processor based on Cisco Unified Communications Manager. After the device is configured, it will appear as a Call Processor in Provisioning Manager.

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- Step 1** Choose **Infrastructure > Set Up Devices > Devices**.  
The Device Configuration page appears.
- Step 2** Click **View Device**.  
A search page appears, listing the available processors.
- Step 3** Click the desired Cisco Unified Communications Manager Device.  
The View Device page appears.

**Step 4** Click **Update**.

The Update Device page appears.

**Step 5** Click **Configure Unified CM**.**Step 6** Enter the following information for the Call Processor (for explanations of the fields, see [Table 2-2](#)):

- Version.
- Device protocol.
- LDAP directory integration.
- Username.
- Password (and confirm).
- Extension Mobility details (if available).
  - Service name.
  - Service URL.

**Step 7** Click **Save**.

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## Configuring a Cisco Unified Communications Manager Express Call Processor

This section describes the procedure for configuring a Call Processor based on Cisco Unified Communications Manager Express. After the device is configured, it will appear as a Call Processor in Provisioning Manager.

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**Step 1** Choose **Infrastructure > Set Up Devices > Devices**.

The Device Configuration page appears.

**Step 2** Click **View Device**.

A search page appears, listing the available processors.

**Step 3** Click the desired Cisco Unified Communications Manager Express device.

The View Device page appears.

**Step 4** Click **Update**.

The Update Device page appears.

**Step 5** Click **Configure Unified CME**.**Step 6** Enter the version for the Cisco Unified Communications Manager Express device.**Step 7** Click **Save**.

## Changing Call Processor Information

After a Call Processor is created and configured, you can view its information and make changes to its configuration.

**Note**

Once a Call Processor is created and synchronized, do not change the type of device for the processor. For example, if you create a Call Processor for Cisco Unified Communications Manager, do not change the Call Processor type to Cisco Unified Communications Manager Express.

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- Step 1** Choose **Infrastructure > Set Up Devices > Call Processors**.  
The Call Processor Configuration page appears.
- Step 2** Click **View Call Processor**.  
A search page appears, listing the available Call Processors.
- Step 3** Select the Call Processor that you require.  
The View Call Processor page appears.
- Step 4** In the Options pane, click **Update**.  
The Update Call Processor page appears.
- Step 5** Edit the fields as required. (For explanations of the fields, see [Table 2-2](#).)
- Step 6** Click **Save**.
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## Synchronizing Call Processors

To synchronize a Call Processor, you synchronize the infrastructure and subscribers. The infrastructure data are the configurations that are required to exist on Call Processor before Provisioning Manager can configure subscriber services.

You use the infrastructure synchronization to synchronize the infrastructure data with the Call Processor infrastructure data. The infrastructure synchronization retrieves Call Processor information that is used across multiple subscribers.

**Note**

The infrastructure and subscriber synchronization process is a one-directional process. Provisioning Manager only gets data from the device, it does not push data to the device. For a list of the objects that Provisioning Manager obtains the information for, see [Cisco Unified Communications Manager Objects that Are Synchronized, page 2-15](#).

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You can execute the synchronizations independently and in any order. However, to preserve the integrity of the data, it is recommended that you run the synchronizations consecutively, and in the following order:

1. Infrastructure synchronization.
2. Subscriber synchronization.




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**Note** After a new Provisioning Manager installation, run an infrastructure and a subscriber synchronization before performing any other tasks. You should not run more than one synchronization at a time (Processor or Domain synchronization). Run all synchronizations sequentially.

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**Step 1** Choose **Infrastructure > Set Up Devices > Call Processors**.

The Call Processor Configuration page appears.

**Step 2** Click **View Call Processor**.

A search page appears, listing the available Call Processors.

**Step 3** Select the Call Processor that you require.

The View Call Processor page appears.




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**Note** If the Call Processor was synchronized previously, the details are displayed in the Synchronization section.

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**Step 4** In the Options pane, click **Synchronize**.

**Step 5** You can run an infrastructure or subscriber synchronization. Click **Start** under the synchronization that you desire.

After the synchronization has completed, the Synchronization section displays the synchronization information.

**Step 6** Click **Done**.

After the Call Processor synchronization completes, a log is created, listing the objects that could not be assigned; see [Viewing a Call Processor's Synchronization Log, page 2-17](#).

If the status of an infrastructure or subscriber synchronization does not change for an extended period of time, verify that the Nice service is running (*cupm NiceService* in the Windows Services window). If the Nice service is stopped, restart the service and restart the infrastructure or subscriber synchronization.

If you wish to manage the Analog Phones, you have to update the `ipt.properties` file. In this file, update the `dfc.ipt.cisco.callmanager.analog_phone_support` to `Y` and then do the subscriber synchronization. Please restart the Provisioning Manager.

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## Cisco Unified Communications Manager Objects that Are Synchronized

Table 2-3 and Table 2-4 list the Cisco Unified Communications Manager objects that are synchronized during an infrastructure and subscriber synchronization in Provisioning Manager.

**Table 2-3** *Cisco Unified Communications Manager Objects Synchronized During an Infrastructure Synchronization*

<ul style="list-style-type: none"> <li>• AAR Group</li> <li>• Call Park</li> <li>• Calling Search Space</li> <li>• Unified CM Group</li> <li>• Call Pickup Group</li> <li>• Common Device Config</li> <li>• Conference Bridge</li> <li>• Date Time Setting</li> <li>• Device Pool</li> <li>• Device Profile</li> <li>• Dial Plan</li> <li>• Dial Plan Tag</li> <li>• Digit Discard Instruction</li> <li>• Enable Password Router</li> <li>• Gatekeeper</li> <li>• Geo Location</li> <li>• Geo Location Filter</li> <li>• Hunt Group</li> <li>• Hunt List</li> <li>• Hunt Pilot</li> <li>• H323 Gateway</li> <li>• H323 Trunk</li> <li>• Line Group</li> <li>• Location</li> <li>• Media Resource Group</li> <li>• Media Resource List</li> </ul>	<ul style="list-style-type: none"> <li>• Meet-Me Number/Pattern</li> <li>• Message Waiting</li> <li>• MOH Audio Source</li> <li>• Phone Profile</li> <li>• Phone Template</li> <li>• Presence Group</li> <li>• Region</li> <li>• Remote Destination Profile</li> <li>• Resource Priority Namespace List</li> <li>• Route Filter</li> <li>• Route Group</li> <li>• Route List</li> <li>• Route Partition</li> <li>• Route Pattern</li> <li>• SIP Trunk</li> <li>• SIP Profile</li> <li>• Softkey Template</li> <li>• SRST</li> <li>• Translation Pattern</li> <li>• UC Service Profile</li> <li>• VG202</li> <li>• VG204</li> <li>• VG224</li> <li>• VGVoicemail Pilot</li> <li>• Voicemail Port</li> <li>• Voicemail Profile</li> </ul>
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**Table 2-4 Cisco Unified Communications Manager Objects Synchronized During a Subscriber Synchronization**

<ul style="list-style-type: none"> <li>• Calling Search Space</li> <li>• Device Pool</li> <li>• Directory Number</li> <li>• IP Phone</li> <li>• License Capabilities</li> </ul>	<ul style="list-style-type: none"> <li>• Line</li> <li>• Location</li> <li>• Phone</li> <li>• Remote Destination Profile</li> <li>• Remote Destination Profile Line</li> <li>• User</li> </ul>
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## Troubleshooting Synchronization

This section contains information that will help you if you encounter problems when synchronizing Call Processors.

The Call Processor Configuration page lists items that could not be synchronized from the Cisco Unified Communications Manager device. For example, on the page, you might see the following message:

```
Completed. But the following objects could not be synchronized: [SecurityProfile, DialPlanTag, SIPTrunk, PhoneTemplate, DigitDiscardInstruction]
```

Incomplete synchronization can occur because of the following:

- Network problems that did not allow the items to be properly synchronized. To determine if this is the cause, analyze the nice.log file. A network problem might be the cause if the file displays the following information:

```
java.security.PrivilegedActionException: com.sun.xml.messaging.saaj.SOAPEExceptionImpl:Message send failed.
```

- Configuration issues with the items. In this case, copy the nice.log file and contact the Cisco Technical Assistance Center (TAC).

## Avoiding Conflicts with Other Cisco Unified Communications Management Suite Products

If Provisioning Manager, Cisco Unified Operations Manager (Operations Manager), and Cisco Unified Service Monitor (Service Monitor) are deployed in the same network and are provisioning and managing the same set of devices, the administrators must plan synchronization activities accordingly.

When planning synchronization activities, keep in mind the following guidelines:

- Operations Manager—When Provisioning Manager is performing a synchronization with either a Call Processor or a Unified Message Processor device, the Operations Manager administrator should not discover the device at the same time.
- Service Monitor—When Provisioning Manager is performing a synchronization with either a Call Processor or a Unified Message Processor device, the Service Monitor administrator should not add or verify the device as a data source at the same time.



## Viewing a Call Processor's Synchronization Log

When warnings or errors occur during a Call Processor synchronization, a log is created. The log shows the objects that could not be synchronized from the Call Processor synchronization. It also shows a warning message if an unknown element is received from the Call Processor. This log is replaced each time a Call Processor synchronization occurs.

**Note**

If you see the warning message “Skipped unexpected element,” you can ignore it. The message indicates that Provisioning Manager does not support the item that was sent back from Cisco Unified Communications Manager.

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**Step 1** Choose **Infrastructure > Set Up Devices > Call Processors**.

The Call Processor Configuration page appears.

**Step 2** Click **View Call Processor**.

A search page appears, listing the available Call Processors.

**Step 3** Select the Call Processor that you require.

The View Call Processor page appears.

**Step 4** In the Options pane, click **Synchronize**.

**Step 5** In the right pane, click **View Detailed Synchronization Log**.

The log appears. The View Detailed Synchronization Log link appears only if a warning or error occurs during synchronization. If there are no warnings or errors, it will not appear.

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## Deleting a Call Processor

Before a Call Processor can be deleted, the following conditions must be met:

- No active released orders, including unrecoverable or recoverable errors.
- No active batch projects.
- No synchronizations in progress.
- No associated Unified Presence Processors.

If these conditions are not met, a message appears on the page when you attempt to delete a Call Processor, telling you the operation will not start. The system must be in maintenance mode before the delete option is available.

While the Call Processor deletion is in progress, avoid performing any activities until the deletion is complete.

**Note**

To completely remove a device from Provisioning Manager, you must delete it through the Device Configuration page. If you just delete the existing Call Processor from Provisioning Manager, only the capability is removed (see [Deleting Devices, page 2-9](#)).

---

---

**Step 1** Put Provisioning Manager in maintenance mode (see [Maintenance Mode, page 10-19](#)).

**Step 2** Choose **Infrastructure > Set Up Devices > Call Processors**.

The Call Processor Configuration page appears.

**Step 3** Click **View Call Processor**.

A search page appears, listing the available Call Processors.

**Step 4** Select the Call Processor that you require.

The View Call Processor page appears.

**Step 5** In the Options pane, click **Delete Call Processor**.

A confirmation dialog box appears, asking you to confirm the deletion.




---

**Note** The system must be in maintenance mode for the Delete command to appear in the Options pane.

---

**Step 6** Click **OK**.

The Call Processor deletion begins, with a progress bar displaying the status of the deletion in the Options pane.

---

## Configuring Unified Message Processors

After a device is added to Provisioning Manager, to complete the set up of the device, it must be configured to Provisioning Manager.

[Table 2-5](#) describes the fields for configuring a Unified Message Processor.



**Note**

---

The fields that are displayed in the Configure a New Unified Message Processor page depend on the device type and version that you select. Not all fields will appear.

---

**Table 2-5** Unified Message Processor Fields

Field	Description
Name	Unified Message Processor name. Valid values are space, alphanumeric characters (A-Z, a-z, 0-9), underscore (_), hyphen (-), period (.), and at sign (@).
Type	The type of Cisco Unity device (Cisco Unity, Cisco Unity Connection, or Cisco Unity Express).
IP Address	Cisco Unity, Cisco Unity Connection, or IOS Router IP Address (where Cisco Unity Express is installed).
Device Type	The type of hardware that the application is installed on. Either a Media Server or a Cisco Router.
Version	The version of the device.

**Table 2-5 Unified Message Processor Fields (continued)**

Field	Description
LDAP Directory Integration  <b>Note</b> This option is available only for Cisco Unity Connection.	Specifies whether Cisco Unity Connection is integrated with an external LDAP.  If you select Yes, while provisioning voicemail account, Provisioning Manager will search the LDAP users list in Cisco Unity Connection. If the user name is found in the list, it will import the user details and provision a voicemail account.  If you select No, Provisioning Manager will not search the LDAP users list and will follow the normal process for provisioning voicemail account.
Username	This field is case sensitive. The username supplied in this field should match the following: <ul style="list-style-type: none"> <li>• Cisco Unity—Database password.</li> <li>• Cisco Unity Connection—Any user with Cisco Unity Connection administrator privileges.</li> <li>• Cisco Unity Express—Username of the router where Cisco Unity Express is installed.</li> </ul>
Password (and confirm)	This field is case sensitive. The password supplied in this field should match the following: <ul style="list-style-type: none"> <li>• Cisco Unity—Database password.</li> <li>• Cisco Unity Connection—Administrator password.</li> <li>• Cisco Unity Express—Password for the router where Cisco Unity Express is installed.</li> </ul>
Create by Import	Indicates whether a new account should be created on an Exchange server for new voicemail accounts created in Cisco Unity.  If selected, creating user accounts on the Exchange server is prevented. User accounts are associated only if they already exist on the Exchange server.
Port	Port used for connecting to the Cisco Unity database.
Protocol	Protocol used to connect to the device.
Enable Password (and confirm)	Enable password for the router where Cisco Unity Express is installed.
Capability/Application	The capability of the device or the application installed on the device.
(Optional) CUE Line User Name	Username for the Cisco Unity Express module.
(Optional) CUE Line Password (and confirm)	Password for the Cisco Unity Express module.
Service Engine Interface Number	The interface number of the Cisco Unity Express service engine on the router.

## Configuring a Cisco Unity Unified Message Processor

This section describes the procedure for configuring a Unified Message Processor based on Cisco Unity. After the device is configured, it will appear as a Unified Message Processor in Provisioning Manager.

- 
- Step 1** Choose **Infrastructure > Set Up Devices > Devices**.  
The Device Configuration page appears.
- Step 2** Click **View Device**.  
A search page appears, listing the available devices.
- Step 3** Click the desired Cisco Unity device.  
The View Device page appears.
- Step 4** Click **Update**.  
The Update Device page appears.
- Step 5** Click the **Configure Unity** link.  
The Configure a New Unified Message Processor page appears.
- Step 6** Enter the following information (for explanations of the fields, see [Table 2-5](#)):
- Version.
  - Username.
  - Password (and confirm).
  - Create by Import.
  - Port number.
- Step 7** Click **Save**.
- 

## Configuring a Cisco Unity Connection Unified Message Processor

This section describes the procedure for configuring a Unified Message Processor based on Cisco Unity Connection. After the device is configured, it will appear as a Unified Message Processor in Provisioning Manager.

- 
- Step 1** Choose **Infrastructure > Set Up Devices > Devices**.  
The Device Configuration page appears.
- Step 2** Click **View Device**.  
A search page appears, listing the available devices.
- Step 3** Click the desired Cisco Unity Connection device.  
The View Device page appears.
- Step 4** Click **Update**.  
The Update Device page appears.
- Step 5** Click the **Configure Unity Connection** link.  
The Configure a New Unified Message Processor page appears.

- Step 6** Enter the following information (for explanations of the fields, see [Table 2-5](#)):
- Version
  - LDAP Directory Integration
  - Username
  - Password (and confirm)
- Step 7** Click **Save**.
- 

## Configuring a Cisco Unity Express Unified Message Processor

This section describes the procedure for configuring a Unified Message Processor based on Cisco Unity Express. After the device is configured, it will appear as a Unified Message Processor in Provisioning Manager.

- 
- Step 1** Choose **Infrastructure > Set Up Devices > Devices**.  
The Device Configuration page appears.
- Step 2** Click **View Device**.  
A search page appears, listing the available devices.
- Step 3** Click the desired Cisco Unity Express device.  
The View Device page appears.
- Step 4** Click **Update**.  
The Update Device page appears.
- Step 5** Click the **Configure Unity Express** link.  
The Configure a New Unified Message Processor page appears.
- Step 6** Enter the following information (for explanations of the fields, see [Table 2-5](#)):
- Version
  - Cisco Unity Express line username
  - Cisco Unity line password (and confirm)
  - Service engine interface number
- Step 7** Click **Save**.
- 

## Changing Unified Message Processor Information

After a Unified Message Processor is created and configured, you can view its information and make changes to its configuration.



### Note

Once a Unified Message Processor is created and synchronized, do not change the type of device for the Unified Message Processor. For example, if you create a Unified Message Processor for a Cisco Unity, do not change the Unified Message Processor type to a Cisco Unity Connection.

---

- 
- Step 1** Choose **Infrastructure > Set Up Devices > Unified Message Processors**.
- The Configure a Unified Message Processor page appears.
- Step 2** Click **View Unified Message Processors**.
- A search page appears, listing the available Unified Message Processors.
- Step 3** Select the Unified Message Processor that you require.
- The View Unified Message Processor page appears.
- Step 4** In the Options pane, click **Update**.
- The Update Unified Message Processor page appears.
- Step 5** Edit the fields as required. (For explanations of the fields, see [Table 2-5](#).)
- Step 6** Click **Save**.
- 

## Synchronizing Unified Message Processors

To synchronize a Unified Message Processor, you synchronize the infrastructure and subscribers. The infrastructure data are the configurations that are required to exist on Unified Message Processors before Provisioning Manager can configure subscriber services.

You use the infrastructure synchronization to synchronize the unified messaging infrastructure data in Provisioning Manager with the Unified Message Processor.



### Note

The infrastructure and subscriber synchronization process is a one-directional process. Provisioning Manager only gets data from the device, it does not push data to the device.

The infrastructure data consists of the following:

- **SubscriberTemplate**—A Subscriber Template in Cisco Unity, Cisco Unity Connection, and the email message processor.
- **UnifiedMessagingFeatureSpecification**—A class of service in Cisco Unity, Cisco Unity Connection, and the email message processor.

You use the subscriber synchronization to synchronize the unified messaging subscriber data in Provisioning Manager with the Unified Message Processor.

The subscriber data consists of the following:

- **UMInfo**—A subscriber in Cisco Unity, Cisco Unity Connection, and Cisco Unity Express in conjunction with their subscriber's voicemail and email information.
- **VoiceMailInfo**—A subscriber in Cisco Unity, Cisco Unity Connection, and Cisco Unity Express in conjunction with UMInfo and EmailInfo.
- **EmailInfo**—A subscriber in Cisco Unity and Cisco Unity Connection in conjunction with VoiceMailInfo and UMInfo.

To preserve the integrity of the data, it is recommended that you run the synchronizations together, and in the following order:

1. Infrastructure synchronization.
2. Subscriber synchronization.

**Note**

After a new Provisioning Manager installation, the infrastructure synchronization must be executed first. You should not run more than one synchronization at a time (Processor or Domain synchronization). Run all synchronizations sequentially.

---

**Step 1** Choose **Infrastructure > Set Up Devices > Unified Message Processors**.

The Unified Message Processor Configuration page appears.

**Step 2** Click **View Unified Message Processor**.

A search page appears, listing the available Unified Message Processors.

**Step 3** Select the Unified Message Processor that you require.

The View Unified Message Processor page appears. If the Unified Message Processor was synchronized previously, the details will be displayed in the Synchronization sections.

**Step 4** In the Options pane, click **Synchronize**.

**Step 5** You can run an infrastructure or subscriber synchronization.

**Step 6** Click **Start** under the synchronization that you desire.

After the synchronization has completed, the Synchronization section displays the synchronization information.

**Note**

If during the synchronization of Cisco Unity Express you encounter device connection errors, close all Telnet sessions on the Cisco Unity Express system and restart the synchronization. Cisco Unity Express only allows one Telnet session at a time. Provisioning Manager cannot synchronize with a Cisco Unity Express device that has another telnet session open.

---

**Step 7** Click **Done**.

---

## Viewing a Unified Message Processor's Synchronization Log

When a Unified Message Processor synchronization occurs and warnings or errors occur, a log is created. The log shows the objects that could not be synchronized from the Unified Message Processor synchronization. Also, it shows a warning message if an unknown element is received from the Unified Message Processor. This log is replaced each time a Unified Message Processor synchronization occurs.

**Note**

If you see the warning message "Skipped unexpected element," you can ignore it. The message indicates that Provisioning Manager does not support the item that was sent back from the Unified Message Processor device.

---

**Step 1** Choose **Infrastructure > Set Up Devices > Unified Message Processors**.

The Unified Message Processor Configuration page appears.

**Step 2** Click **View Unified Message Processor**.

A search page appears, listing the available Unified Message Processors.

**Step 3** Select the Unified Message Processor that you require.

The View Unified Message Processor page appears.

**Step 4** In the Options pane, click **Synchronize**.

**Step 5** In the right pane, click **View Detailed Synchronization Log**.

The log appears. The View Detailed Synchronization Log link appears only if a warning or error occurs during synchronization. If there are no warnings or errors, it does not appear.

## Deleting a Unified Message Processor

Before a Unified Message processor can be deleted, the following conditions must be met:

- No active released orders, including unrecoverable or recoverable errors.
- No active batch projects.
- No synchronizations in progress.

If these conditions are not met, a message appears on the page when you attempt to delete a Unified Message Processor, telling you the operation will not start. The system must be in maintenance mode before the delete option is available.

While the Unified Message Processor deletion is in progress, avoid performing any activities until the deletion is complete.



### Note

To completely remove a device from Provisioning Manager, you must delete it through the Device Configuration page. If you just delete the existing Unified Message Processor from Provisioning Manager, only the capability is removed (see [Deleting Devices, page 2-9](#)).

**Step 1** Put Provisioning Manager in maintenance mode (see [Maintenance Mode, page 10-19](#)).

**Step 2** Choose **Infrastructure > Set Up Devices > Unified Message Processors**.

The Unified Message Processor Configuration page appears.

**Step 3** Click **View Unified Message Processor**.

A search page appears, listing the available Unified Message Processors.

**Step 4** Select the Unified Message Processor that you require.

The View Unified Message Processor page appears.

**Step 5** In the Options pane, click **Delete Unified Message Processor**.

A confirmation box appears, asking you to confirm the Unified Message processor deletion.



### Note

The system must be in maintenance mode for the Delete command to appear in the Options pane.

**Step 6** Click **OK**.

The Unified Message processor deletion begins, with a progress bar displaying the status of the deletion in the Options pane.



## Configuring Unified Presence Processors

Table 2-6 describes the fields for configuring a Unified Presence Processor.


**Note**

The fields that are displayed in the Configure a New Presence Processor page depend on the device type and version that you select. Not all fields will appear.

### Configuring a Cisco Unified Presence Processor

**Table 2-6** Unified Presence Processor Fields

Field	Description
Name	Unified Presence Processor name. Valid values are space, alphanumeric characters (A-Z, a-z, 0-9), underscore (_), hyphen (-), period (.), and at sign (@).
Device Name	Name of the associated device.
Associated CUCM Name	Name of the associated Cisco Unified Communications Manager.
IP Address	IP address of the Cisco Unified Presence Processor.
Type	Type of the device. You cannot edit this field.
Version	Unified Presence Processor version number.
Device Protocol	Protocol used to communicate with the device.
User Name	Username based on the protocol selected.
Password (and confirm)	Password for the Cisco Unified Presence username.

This section describes the procedure for configuring a Unified Presence Processor based on Cisco Unified Presence. After the device is configured, it will appear as a Unified Presence Processor in Provisioning Manager.

- 
- Step 1** Choose **Infrastructure > Set Up Devices > Devices**.  
The Device Configuration page appears.
- Step 2** Click **View Device**.  
A search page appears, listing the available processors.
- Step 3** Click the desired Cisco Unified Presence device.  
The View Device page appears.
- Step 4** Click **Update**.  
The Update Device page appears.
- Step 5** Click **Configure Unified Presence**.
- Step 6** Enter the following information for the Unified Presence Processor (for explanations of the fields, see Table 2-6):
- Version.

- Device protocol.
- Username.
- Password (and confirm).

**Step 7** Click **Save**.

---

## Changing Unified Presence Processor Information

After a Unified Presence Processor is created and configured, you can view its information and make changes to its configuration.



**Note**

Once a Unified Presence Processor is created and synchronized, do not change the type of device for the processor.

---

**Step 1** Choose **Infrastructure > Set Up Devices > Unified Presence Processors**.

The Presence Processor Configuration page appears.

**Step 2** Click **View Presence Processor**.

A search page appears, listing the available Unified Presence Processors.

**Step 3** Select the Unified Presence Processor that you require.

The View Presence Processor page appears.

**Step 4** In the Options pane, click **Update**.

The Update Presence Processor page appears.

**Step 5** Edit the fields as required. (For explanations of the fields, see [Table 2-2](#).)

**Step 6** Click **Save**.

---

## Synchronizing Unified Presence Processors

Use the Infrastructure synchronization to synchronize the User Settings Infrastructure data in Provisioning Manager with the Unified Presence Processor.



**Note**

Add Cisco Unified Communications Manager, integrated with Unified Presence Processor to Provisioning Manager before running the synchronization.

---

The infrastructure synchronization process is a one-directional process. Provisioning Manager only gets data from the device; it does not push data to the device.

You should not run more than one synchronization at a time (Processor or Domain synchronization).

To perform Infrastructure synchronization:

---

**Step 1** Choose **Infrastructure > Set Up Devices > Unified Presence Processors**.

The Presence Processor Configuration page appears.

**Step 2** Click **View Presence Processor**.

**Step 3** Select the Unified Presence Processor that you require.

The View Presence Processor page appears. If the Unified Presence Processor was synchronized previously, the details will be displayed in the Synchronization section.

**Step 4** In the Options pane, click **Synchronize**.

**Step 5** Click **Start** to run infrastructure synchronization.



---

**Note** Subscriber synchronization will be disabled for Cisco Unified Presence 9.0 and higher.

---

**Step 6** Click **Done**.

After the Presence Processor synchronization has completed, a log is created, listing the objects that could not be assigned.

---

## Viewing a Unified Presence Processor's Synchronization Log

When warnings or errors occur during a Unified Presence Processor synchronization, a log is created. The log shows the objects that could not be synchronized from the Unified Presence Processor synchronization. It also shows a warning message if an unknown element is received from the Unified Presence Processor. This log is replaced each time a Unified Presence Processor synchronization occurs.



---

**Note** If you see the warning message "Skipped unexpected element," you can ignore it. The message indicates that Provisioning Manager does not support the item that was sent back from Cisco Unified Communications Manager.

---

---

**Step 1** Choose **Infrastructure > Set Up Devices > Unified Presence Processors**.

The Unified Presence Processor Configuration page appears.

**Step 2** Click **View Presence Processor**.

A search page appears, listing the available Unified Presence Processors.

**Step 3** Select the Unified Presence Processor that you require.

The View Presence Processor page appears.

**Step 4** In the Options pane, click **Synchronize**.

**Step 5** In the right pane, click **View Detailed Synchronization Log**.

The log appears. The View Detailed Synchronization Log link appears only if a warning or error occurs during synchronization. If there are no warnings or errors, it will not appear.

---

## Deleting a Unified Presence Processor

Before a Unified Presence Processor can be deleted, the following conditions must be met:

- No active released orders, including unrecoverable or recoverable errors.
- No active batch projects.
- No synchronizations in progress.

If these conditions are not met, a message appears on the page when you attempt to delete a Unified Presence Processor, telling you the operation will not start. The system must be in maintenance mode before the delete option is available.

While the Unified Presence Processor deletion is in progress, avoid performing any activities until the deletion is complete.



### Note

To completely remove a device from Provisioning Manager, you must delete it through the Device Configuration page. If you just delete the existing Unified Presence Processor from Provisioning Manager, only the capability is removed (see [Deleting Devices, page 2-9](#)).

**Step 1** Put Provisioning Manager in maintenance mode (see [Maintenance Mode, page 10-19](#)).

**Step 2** Choose **Infrastructure > Set Up Devices > Unified Presence Processors**.

The Presence Processor Configuration page appears.

**Step 3** Click **View Presence Processor**.

A search page appears, listing the available Unified Presence Processors.

**Step 4** Select the Unified Presence Processor that you require.

The View Presence Processor page appears.

**Step 5** In the Options pane, click **Delete Presence Processor**.

A confirmation dialog box appears, asking you to confirm the deletion.



**Note** The system must be in maintenance mode for the Delete command to appear in the Options pane.

**Step 6** Click **OK**.

The Unified Presence Processor deletion begins, with a progress bar displaying the status of the deletion in the Options pane.

## Working with Cisco IOS Routers in Provisioning Manager

Provisioning Manager provides support for Cisco IOS routers. Through the Generic IOS Router capability Provisioning Manager can configure additional voice functionality on a router.

**Note**

There are some significant differences in how a Generic IOS Router is set up in Provisioning Manager in comparison to a Call Processor and a Unified Message Processor. Most notably, Generic IOS Routers are not synchronized and they are not associated to a Domain or a Service Area.

## Viewing/Changing Generic IOS Router Information

After a Generic IOS Router is added to Provisioning Manager (see [Adding a Cisco IOS Router Device, page 2-7](#)), you can view its information and make changes.

- 
- Step 1** Choose **Infrastructure > Set Up Devices > Devices**.  
The Device Configuration page appears.
- Step 2** Click **View Device**.  
A search page appears, listing the available devices.
- Step 3** Select the device that you require.  
The View Device page appears. The device information appears in the right pane.
- Step 4** If you want to update the information, in the Options pane, click **Update**.  
The Update Device page appears.
- Step 5** Edit the fields as required. (For explanations of the fields, see [Table 2-1](#).)
- Step 6** Click **Save**.
- 

## Testing Generic IOS Router Connections

After a Generic IOS Router is added to Provisioning Manager (see [Adding a Cisco IOS Router Device, page 2-7](#)), you can test its connection. Provisioning Manager checks the router connectivity based on the IP address and credentials provided for the router when it was added to Provisioning Manager.

- 
- Step 1** Choose **Infrastructure > Set Up Devices > Devices**.  
The Device Configuration page appears.
- Step 2** Click **View Device**.  
A search page appears, listing the available devices.
- Step 3** Select the device that you require.  
The View Device page appears.
- Step 4** In the Options pane, click **Update**.  
The Update Device page appears.
- Step 5** Click **Test Router Connection**. Provisioning Manager tests the routers connectivity.  
A message appears on the page stating whether or not the test was successful.
-

## Deleting a Generic IOS Router

To delete a Generic IOS Router, there must not be any pending orders on it.

You do not need to be in maintenance mode to delete the Generic IOS Router capability.

**Note**

---

If another capability (other than Generic IOS Router) is already configured on the router, you must be in maintenance mode to remove the other capability. (For details, see [Deleting a Call Processor, page 2-17](#), or [Deleting a Unified Message Processor, page 2-24](#).)

---

This section describes the procedure for deleting a Generic IOS Router device from Provisioning Manager.

---

**Step 1** Choose **Infrastructure > Set Up Devices > Devices**.

The Device Configuration page appears.

**Step 2** Click **View Device**.

A search page appears, listing the available devices.

**Step 3** Select the device that you want to delete.

The View Device page appears.

**Step 4** In the Options pane, click **Delete Device**.

A confirmation box appears, asking you to confirm the device deletion.

**Note**

---

The system must be in maintenance mode for the Delete command to appear in the Options pane.

---

**Step 5** Click **OK**.

The device deletion begins, with a progress bar displaying the status of the deletion in the Options pane.

---