



## **QUICK START GUIDE**



# **Quick Start Guide for Administrators: Installing Cisco Unified MeetingPlace Video Integration Release 5.4**

**Part Number:** OL-14865-01  
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# 1 Requirements for *This* Configuration

This document provides instructions for installing and configuring the simplest possible deployment of Cisco Unified MeetingPlace Video Integration.



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**Note** Other configurations are supported but not documented here.

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For *this* installation, these instructions assume your environment meets the following conditions:

## General



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**Caution** If you have already attempted this installation, uninstall everything and undo changes you have made before reinstalling following these instructions.

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- You have not yet begun to install and configure this application.
- Your equipment meets the requirements described in the system requirements and compatibility matrix documents at [http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products\\_device\\_support\\_tables\\_list.html](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html).
- Your equipment complies with the limitations, restrictions, and other information in the *Release Notes for Cisco Unified MeetingPlace Video Integration*, available from [http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod_release_notes_list.html).
- The following restrictions apply for the configuration described in this document only. They do not necessarily apply to all deployments.

## Network

- There is a single Cisco Unified Communications Manager or Cisco Unified CallManager that is set up and can route calls properly.
- There is a single Cisco IOS Gatekeeper (plus one internal ECS gatekeeper that is installed with this application).
- All components are installed at the same geographic location and are on the same network.
- There are no bandwidth bottlenecks between devices on your network.
- *This* deployment needs to support only IP resources, no ISDN or PSTN resources.
- You have a Network Time Protocol (NTP) server to which you can synchronize all servers in this deployment.

## Cisco Unified MeetingPlace System

- The Cisco Unified MeetingPlace system (release 5.4 or 6.0) has only one audio server.
- The Cisco Unified MeetingPlace system is licensed for video conferencing.
- The web conferencing servers are not configured for DMZ access.
- The Microsoft Outlook and Lotus Notes integrations are not used.
- Calls are routed via a Cisco Unified MeetingPlace H.323/SIP IP Gateway.
- The audio system includes only IP phones.

## MCU

- One Cisco Unified Videoconferencing Multipoint Control Unit (MCU), model 3515 or 3545, release 5.x.

## Video Endpoints

- All video endpoints are H.323 endpoints or desktop cameras associated with the primary phone number configured for each user in Cisco Unified MeetingPlace.
- There are no high-definition endpoints.

## The Video Administration Component (Installed During This Process)

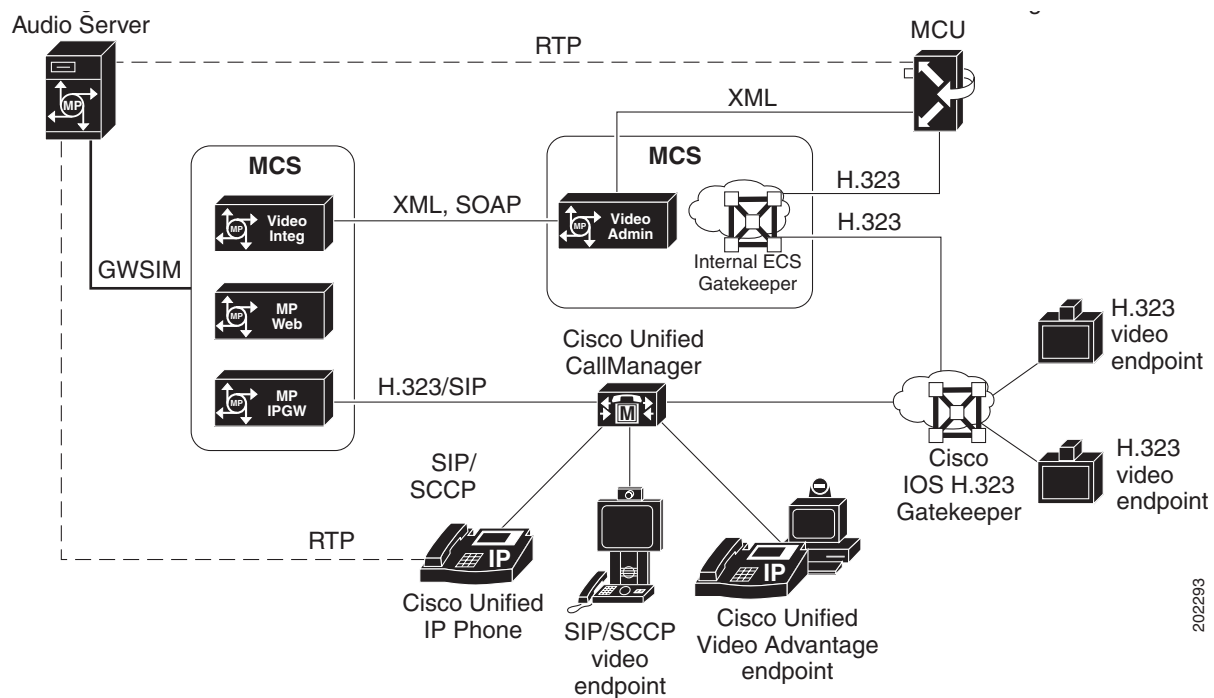
- Video Administration will control only video conferences. Audio-only conferences are handled by the audio server.
- You have a clean, dedicated Cisco Media Convergence Server (MCS) server model 7835 or 7845 available on which to install the Video Administration component. This server is on your network and has a static IP address.
- Your environment has no limitations or restrictions that will prevent you from using the default settings for this application, including the default database provided with this software.

## Other Requirements

This document assumes you are familiar with administrative functions for the following products:

- Cisco Unified MeetingPlace audio and web conferencing
- Cisco Unified Videoconferencing
- Cisco Unified Communications Manager or Cisco Unified CallManager

## 2 Overview of Components



## 3 How To Prepare for Install

**Important:** Perform all tasks in this document in the order they appear, exactly as described. You can configure additional changes after you have verified that your system is running properly.

- [How To Verify Preparedness of Component Systems, page 4](#)
- [Configuring the MCU, page 4](#)
- [Verifying Correct EMP Port Addressing \(for 3545 MCUs only\), page 5](#)
- [Configuring the Audio Server, page 6](#)
- [Configuring the Cisco IOS Gatekeeper, page 6](#)

## How To Verify Preparedness of Component Systems

- [Meeting the Requirements for This Configuration, page 4](#)
- [Verifying That Your Cisco Unified MeetingPlace System Works Without Video, page 4](#)
- [Verifying That the MCU Can Run Video Conferences Independently of Cisco Unified MeetingPlace, page 4](#)

### Meeting the Requirements for *This* Configuration

Make sure your equipment, software and network characteristics meet the requirements for the configuration detailed in *this* document. See [Requirements for This Configuration, page 2](#).

### Verifying That Your Cisco Unified MeetingPlace System Works Without Video

#### Procedure

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- Step 1** Make sure audio participants can dial in to join a conference.
  - Step 2** Make sure the system can dial out to audio participants to bring them into the conference.
  - Step 3** Make sure all participants can successfully hear each other and participate in the same web conference.
- 

### Verifying That the MCU Can Run Video Conferences Independently of Cisco Unified MeetingPlace

#### Procedure

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- Step 1** Schedule a video conference on the MCU.
  - Step 2** Make sure video endpoints can dial in to join a video conference.
  - Step 3** Make sure the MCU can dial out to video endpoints to bring them into the conference.
  - Step 4** Make sure all video endpoints can see and hear each other in the video conference.
- 

## Configuring the MCU

#### Procedure

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- Step 1** Log in to your MCU Administrator interface.
- Step 2** Synchronize the MCU with the NTP server:
  - a. For Model 3515 MCU: Click **Device**.  
For Model 3545 MCU: Click **Board**.
  - b. Click the **Basics** tab.
  - c. For Date/Time, click **Change**.
  - d. Check **NTP Enabled**.
  - e. Click **Synchronize with NTP server address**.
  - f. Enter the IP address of the NTP server.
  - g. Click **Upload**.
- Step 3** Check to be sure the port addressing is correct:
  - a. Click the **Addressing** tab.

- b. Make sure **Port status** is set to **100Mbps/ Full Duplex**.
- c. Check to see which port on the switch the MCU is physically connected to.
- d. Set that port to **100Mbps/ Full Duplex**.
- e. Click **Upload**.

**Step 4** Click **MCU**.

**Step 5** Click the **Settings** tab.

**Step 6** Click **Advanced**.

**Step 7** Set options:

Option	Value
Conferences Can Be Created Using	Scheduler only. After you change this setting, it will only be possible to create video conferences via Cisco Unified MeetingPlace.
Participants Can Join the Conference Using	Invite and Dial-in
External conference authorization policy	None

**Step 8** Click **Upload**.

**Step 9** Click the **Protocols** tab.

**Step 10** Click **H.323**.

**Step 11** Set **Gatekeeper Address** to the IP Address of the MCS server on which you will install the Video Administration component.

**Step 12** Click **Upload**.

**Step 13** If the preconfigured MeetingPlace service prefix will not work with your existing dial plan:

- a. Click the **Services** tab.
- b. Change the prefix to a number that will work in your dial plan.
- c. Click **Upload**.

## Verifying Correct EMP Port Addressing (for 3545 MCUs only)

### Procedure

**Step 1** Make sure the port addressing for the EMP card is set to **Auto-negotiate**.

**Step 2** Make sure the port to which the EMP card is physically connected is also set to **Auto-negotiate**.

**Step 3** If either of these is not correct, see the documentation for your EMP card.

## Configuring the Audio Server

### Procedure

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- Step 1** Log in to Cisco Unified MeetingPlace MeetingTime.
- Step 2** Synchronize the audio server with the NTP server:
- Click the **Configure** tab.
  - Click **System Parameters** in the left panel.
  - Click **Query**.
  - Look for **NTP Server** in the panel on the right.
  - Enter the IP address of your NTP server.
  - Click **Save changes**.
- Step 3** Configure user and group profiles for video conferencing, especially the **Allow Video Scheduling** parameter in the **Restrictions** section.
- Step 4** Set Video Meeting parameters:
- Click the **Configure** tab.
  - Click **Scheduling Parameters** in the left panel.
  - Click **Query**.
  - Scroll down in the panel on the right to **Video Meetings**.
  - Make sure that **Max ports per meeting** does not exceed the total number of ports available on your MCU.
  - Leave the other values at the default for this configuration.
  - Click **Save changes**, if applicable.
- 

## Configuring the Cisco IOS Gatekeeper

The Cisco IOS Gatekeeper must:

- route calls from H.323 endpoints that begin with the MeetingPlace service prefix to the internal ECS gatekeeper that is included in the Video Administration component of Cisco Unified MeetingPlace Video Integration.
- route calls to the H.323 endpoints.
- route unknown calls to Cisco Unified Communications Manager.

### Procedure

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- Step 1** Access the Cisco IOS Gatekeeper.
- Step 2** Make sure your configuration includes the following entries: (replace the variables between the angle brackets as appropriate)
- ```
zone local <LOCAL_ZONE_NAME><DOMAIN> <LOCAL_ACTIVE_IP_ADDRESS_FOR_GATEKEEPER
REGISTRATION>

zone remote <VIDEO_ADMINISTRATION_ZONE_NAME> <DOMAIN> <IP_ADDRESS_OF_THE_SERVER_ON_WHICH
YOU_WILL_INSTALL_THE_VIDEO_ADMINISTRATION_COMPONENT>

zone prefix <VIDEO_ADMINISTRATION_ZONE_NAME> <MEETINGPLACE_SERVICE_PREFIX_ON_MCU*>

zone prefix <LOCAL_ZONE_NAME><PATTERN_TO_COVER_VIDEO_ENDPOINT_DEVICES_REGISTERED_TO_THIS
GATEKEEPER>

gw-type-prefix <DEFAULT_TECHNOLOGY_PREFIX_AS_CONFIGURED_IN_CISCO_UNIFIED_COMMUNICATIONS
MANAGER> default-technology
```

```
lrq forward-queries add-hop-count
no use-proxy <LOCAL_ZONE_NAME> default inbound-to terminal
no use-proxy <LOCAL_ZONE_NAME> default outbound-from terminal
```

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**Note** The port number 1719 is appended automatically to the `zone remote` line.

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## 4 How To Install and Configure the Video Administration Component

The Video Administration component includes an internal ECS Gatekeeper that routes calls between the Video Administration component and the MCU.



**Note** All H.323 endpoints and Cisco Unified Communications Manager trunks register to the external Cisco IOS Gatekeeper, which routes all calls between the internal gatekeeper and the video endpoints.

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- [Preparing the MCS Server for Installation, page 7](#)
- [Installing the MSDE Software, page 8](#)
- [Installing the Video Administration Component, page 8](#)
- [Accessing the Video Administration Component, page 9](#)
- [Adding the Cisco IOS Gatekeeper to the Video Administration Component, page 9](#)
- [Identifying Your MCU in the Video Administration Component, page 10](#)
- [Downloading Meeting Types From Your MCU, page 10](#)

### Preparing the MCS Server for Installation

#### Before You Begin

Make sure that the Microsoft Windows SNMP service is installed.

#### Procedure

On the MCS server on which you will install the Video Administration component:

- 
- Step 1** Configure this server to synchronize with the NTP server:
- a. At the command line, issue `net time /setsntp:<NTP-SERVER-NAME>`
  - b. Set the Windows Time service (in the Services Control Panel) to start automatically, then start the service.
- Step 2** Make sure the following ports are not occupied:
- 1098
  - 1099
-

## Installing the MSDE Software

Install Microsoft SQL Server Desktop Engine (MSDE) on the same MCS server as the Video Administration component.

### Before You Begin

Make sure you will not need to interrupt this installation.

### Procedure

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**Step 1** Launch Setup\_MSDE.exe.

**Step 2** Accept all defaults.

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**Note** The actual database will be created during installation of the Video Administration component.

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## Installing the Video Administration Component

### Before You Begin

- Make sure you install this component on the server on which you have just installed MSDE.
- Make sure you have completed all previous tasks in this document.
- Make sure you will not need to interrupt this installation.

### Procedure

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**Step 1** Run the Video Administration installer.

The name of the installer should be similar to Cisco\_Video\_Admin\_<version #>.exe or CUMP\_Video\_Administration <version number>.exe.

**Step 2** Accept all defaults when presented.

Exception: You may change the database password for security purposes.

Note your new password if you change it.

**Step 3** When prompted for the **Video Admin Account Login Information**, enter values of your choice. (This is the only set of login information that does not present default values.)

You will use this information to access the Video Administration component.

Restrictions:

| Value    | Restriction                     |
|----------|---------------------------------|
| Login ID | No more than 16 characters long |
| Password | No more than 12 characters long |

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## Accessing the Video Administration Component

The Video Administration component runs as a Windows service. This service automatically starts when the server on which it is installed starts.

### Procedure

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**Step 1** Point your browser at <http://<Your-Video-Administration-server>:8080/va>.



**Note** Port number is required.

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**Step 2** If you see a window that offers options for **User Provisioning**:

- a. Make no changes.
- b. Click **OK**.
- c. Click **OK** again.

You will see this only the first time you access Video Administration after installation.

**Step 3** Log in.

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## Adding the Cisco IOS Gatekeeper to the Video Administration Component

### Procedure

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**Step 1** Click **Resource Management**.

**Step 2** Click the **Gatekeeper/SIP Server** tab.



**Note** The `local_gatekeeper` that you see in the list is the internal ECS gatekeeper. The authorization connection will show **Disconnected**. This is expected.

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**Step 3** Click **Add**.

**Step 4** Add your Cisco IOS Gatekeeper:

| Option           | Value                                          |
|------------------|------------------------------------------------|
| Name             | Identifying name for your Cisco IOS Gatekeeper |
| IP Address       | IP address of your Cisco IOS Gatekeeper        |
| Model            | Cisco MCM 500                                  |
| All other values | Use the defaults.                              |

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

This gatekeeper is automatically defined as the neighbor of the internal ECS gatekeeper.

The Cisco IOS Gatekeeper does not necessarily show **Connected** when you view it in the table.

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## Identifying Your MCU in the Video Administration Component

### Procedure

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**Step 1** Click **Resource Management**.

**Step 2** Click the **MCU** tab.

**Step 3** Click **Add**.

**Step 4** Add information about your MCU:

| Option           | Value                          |
|------------------|--------------------------------|
| Name             | Name of your MCU               |
| IP Address       | IP Address of MCU              |
| Model            | Cisco IPVC - 36xx v5.x         |
| Registered To    | local_gatekeeper               |
| Login Name       | Login information for the MCU. |
| Login Password   |                                |
| All other values | Use the defaults.              |

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

**Step 6** If you have configured SNMP on your MCU, configure the Video Administration server to match:

- a. Click **Advanced**.
- b. Enter the values to match those configured on your MCU.
- c. Click **OK**.

**Step 7** Click **OK**.

**Step 8** Wait for the Video Administration component to synchronize with the MCU.

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## Downloading Meeting Types From Your MCU



**Note** Meeting Types in the Video Administration component are called Services or Service Prefixes in the MCU.

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### Procedure

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**Step 1** Click **Meeting Types**.

**Step 2** Click **Download**.

You should see the MeetingPlace service in the list.

**Step 3** Click **OK**.

**Step 4** Click **OK**.

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## 5 Installing the Video Integration Component

### Before You Begin

- Make sure you have completed all previous tasks in this document.
- Make sure that the Cisco Unified MeetingPlace system is not in use. The Video Integration installer will stop the web conferencing master service and all subordinate services.
- Verify that the Video Administration server and the Cisco Unified Videoconferencing MCUs are available on the network (reachable via their IP addresses).
- Note the E.164 number that is used to direct calls to the Cisco Unified MeetingPlace H.323/SIP IP Gateway. To locate that number:  
On the machine on which the Cisco Unified MeetingPlace H.323/SIP IP Gateway is installed, choose **Start > Programs > MeetingPlace Applications > MeetingPlace Management**.

### Procedure

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- Step 1** Run the **Setup.exe** for Cisco Unified MeetingPlace Video Integration.  
After installation is complete, Cisco Unified MeetingPlace services will restart automatically.
- Step 2** Repeat **Step 1** on each web conferencing server. Check the **Host Video Conferences** check box for only one web conferencing server.
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## 6 How To Modify the Web Conferencing Server Configuration

- [Configuring the Web Conferencing Servers to Synchronize with the Network Time Protocol Server, page 11](#)
- [Uploading the Meeting Types to the Cisco Unified MeetingPlace Servers, page 12](#)

### Configuring the Web Conferencing Servers to Synchronize with the Network Time Protocol Server

For a Release 5.4 Cisco Unified MeetingPlace system, use this procedure.

For a Release 6.0 system, the web conferencing servers automatically synchronize with the audio server.

### Procedure

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- Step 1** Navigate to the Windows Control Panel.
- Step 2** Double-click **MeetingPlace Gateways**.
- Step 3** Click **Internet Time**.
- Step 4** Check **Synchronize Server Time with NTP Server**.
- Step 5** Enter values for all other options in the window.
- Step 6** Click **OK**.
- Step 7** Repeat this procedure on each web conferencing server.
-

## Uploading the Meeting Types to the Cisco Unified MeetingPlace Servers

This procedure imports the Meeting Types from the Video Administration component into the Cisco Unified MeetingPlace system.

### Procedure

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- Step 1** Sign in to any Cisco Unified MeetingPlace Web Conferencing server in the system.
  - Step 2** Click **Admin**.
  - Step 3** Click **Replication Service**.
  - Step 4** For **Replication Service Command**, choose **Update All Terminals**.  
This also updates the Meeting Types.
  - Step 5** Click **Submit**.
- 

## 7 How To Configure Cisco Unified Communications Manager

Information in this section also applies to your supported version of Cisco Unified CallManager.

Do the following if you have not yet done so:

- [Adding the Cisco IOS Gatekeeper, page 12](#)
- [Creating an H.225 Trunk for the IOS Gatekeeper, page 13](#)
- [Adding A Route Pattern to Route Calls to the Internal ECS Gatekeeper, page 13](#)

## Adding the Cisco IOS Gatekeeper

### Procedure

---

- Step 1** Launch and log in to the Cisco Unified Communications Manager Administration interface.
- Step 2** Choose **Device > Gatekeeper**.
- Step 3** Click **Add a New Gatekeeper** or **Add New**.  
The exact text depends on the Cisco Unified Communications Manager version.
- Step 4** Enter options:

| Option                 | Value                                       |
|------------------------|---------------------------------------------|
| Host Name / IP Address | IP address of the IOS gatekeeper.           |
| Description            | A name that identifies this gatekeeper.     |
| Enable Device          | Check the check box.                        |
| Other options          | Values as appropriate for your environment. |

- Step 5** Click **Insert** or **Save**.  
The exact text depends on the Cisco Unified Communications Manager version.
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## Creating an H.225 Trunk for the IOS Gatekeeper

### Procedure

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- Step 1** Choose **Device > Trunk** from the Cisco Unified Communications Manager Administration menu bar.
- Step 2** Click **Add a New Trunk** or **Add New**.  
The exact text depends on the Cisco Unified Communications Manager version.
- Step 3** For **Trunk Type**, choose **H.225 (Gatekeeper Controlled)**.
- Step 4** Click **Next**.
- Step 5** Enter options. (Scroll down to see all options.)

| Option                                         | Value                                                                                                                                                                                            |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Device Name                                    | A name that identifies this trunk.                                                                                                                                                               |
| Description                                    | A descriptive name for this trunk that connects to your IOS gatekeeper.                                                                                                                          |
| Retry Video Call as Audio                      | Check the check box.                                                                                                                                                                             |
| Wait for Far End H.245 Terminal Capability Set | Uncheck the check box.                                                                                                                                                                           |
| Gatekeeper Name                                | Select the Cisco IOS Gatekeeper that you configured earlier in this process.                                                                                                                     |
| Terminal Type                                  | Gateway.                                                                                                                                                                                         |
| Technology Prefix                              | The prefix or pattern that will route calls to Cisco Unified Communications Manager from the gatekeeper.<br>This value must match the default technology prefix specified in the IOS Gatekeeper. |
| Zone                                           | Enter the name of the local zone you specified in <a href="#">Configuring the Cisco IOS Gatekeeper, page 6</a> . This value is case-sensitive.                                                   |
| Other parameters                               | Values as appropriate for your environment.                                                                                                                                                      |

- Step 6** Click **Insert** or **Save**.  
The exact text depends on the Cisco Unified Communications Manager version.
- Step 7** Click **OK**.
- Step 8** Click **Reset Trunk** or **Reset**.  
The exact text depends on the Cisco Unified Communications Manager version.
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## Adding A Route Pattern to Route Calls to the Internal ECS Gatekeeper

### Procedure

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- Step 1** From the Cisco Unified Communications Manager Administration menu bar, do one of the following:
- In Cisco Unified Communications Manager 4.0, choose **Route Plan > Route Pattern/Hunt Pilot**.
  - In Cisco Unified Communications Manager 4.1, choose **Route Plan > Route / Hunt > Route Pattern**.
  - In Cisco Unified Communication Manager 5.x and 6.x, choose **Route / Hunt > Route Pattern**.
- Step 2** Click **Add a New Route Pattern/Hunt Pilot** or **Add New**.

The exact text depends on the Cisco Unified Communications Manager version.

**Step 3** Enter options:

| Option                                                                                                                                                                                                  | Value                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Route Pattern/Hunt Pilot                                                                                                                                                                                | The MeetingPlace service prefix you defined on the Cisco Unified Videoconferencing MCU, followed by an exclamation point (!). |
| Description                                                                                                                                                                                             | A name that describes this route pattern.                                                                                     |
| Cisco Unified Communications Manager 4.0: Gateway or Route/Hunt List<br>Cisco Unified Communications Manager 4.1: Gateway or Route List<br>Cisco Unified Communications Manager 5.1: Gateway/Route List | The IP address or hostname of the H225 Trunk (Gatekeeper Controlled) that you created.                                        |
| Provide Outside Dialtone                                                                                                                                                                                | Uncheck this check box.                                                                                                       |
| Other parameters.                                                                                                                                                                                       | Values as appropriate for your environment.                                                                                   |

**Step 4** Click **Insert** or **Save**.

The exact text depends on the Cisco Unified Communications Manager version.

**Step 5** If you see a message telling you that the authorization code will not be activated, click **OK**.

This deployment does not use authorization codes.

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## 8 Getting More Information

The complete *Administration Guide for Cisco Unified MeetingPlace Video Integration Release 5.4* is available at [http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod\\_installation\\_guides\\_list.html](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod_installation_guides_list.html). The administration guide includes troubleshooting information and instructions for configuring more complex systems.

The “Cisco Unified MeetingPlace Integration” chapter of the *Cisco Unified Communications SRND Based on Cisco Unified Communications Manager 6.x* has a section on “Unified MP Video Integration”. This Solution Reference Network Design document is available at

[http://www.cisco.com/en/US/products/sw/voicesw/ps556/products\\_implementation\\_design\\_guides\\_list.html](http://www.cisco.com/en/US/products/sw/voicesw/ps556/products_implementation_design_guides_list.html).

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