- Use Cisco Unified MeetingPlace H.323/SIP IP Gateway Release 6.0 with Cisco Unified MeetingPlace Release 6.1 FCS installations.
- Use Cisco Unified MeetingPlace H.323/SIP IP Gateway Release 6.1 with Cisco Unified MeetingPlace Release 6.1 MR1 installations.

To install Cisco Unified MeetingPlace H.323/SIP IP Gateway, perform the following procedures in this order:

- About Configuring the Cisco Unified MeetingPlace H.323/SIP IP Gateway for Use With Cisco Unified MeetingPlace Web Conferencing
- How to Complete Prerequisites for Installation or Upgrade
- How to Configure Cisco Unified Communications Manager for Use With Cisco Unified MeetingPlace H.323/SIP IP Gateway
- How to Install or Upgrade to Cisco Unified MeetingPlace H.323/SIP IP Gateway Software Release 6.x
- Uninstalling Cisco Unified MeetingPlace H.323/SIP IP Gateway Software Release 6.x

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- 1 About Configuring the Cisco Unified MeetingPlace H.323/SIP IP Gateway for Use With Cisco Unified MeetingPlace Web Conferencing
- 2 How to Complete Prerequisites for Installation or Upgrade
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  - 3.1 Adding the Cisco Unified MeetingPlace H.323/SIP IP Gateway Server to the Cisco Unified Communications Manager Configuration Database
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About Configuring the Cisco Unified MeetingPlace H.323/SIP IP Gateway for Use With Cisco Unified MeetingPlace Web Conferencing

You can install the IP Gateway software Release 6.x on either the same or separate server as Cisco Unified MeetingPlace Web Conferencing. Cisco Unified MeetingPlace Release 6.1 uses the primary address, and you must configure Web Conferencing to use the secondary address. If the IP Gateway software is installed on a server with more than one IP address, then you must define a gateway for each IP address either in Cisco Unified Communications Manager, Cisco SIP Proxy server, or H.323 Gatekeeper for outdials to work.

Note: Before you install multiple Cisco Unified MeetingPlace system integration applications on the same server, ensure that your system meets the requirements for integration. For additional information, see *Important Information About Cisco Unified MeetingPlace Products and Cisco Media Convergence Servers* at the following URL: http://www.cisco.com/univercd/cc/td/doc/product/conf/mtgplace/mpmcs.htm

To define gateways in Cisco Unified Communications Manager, see Adding the Cisco Unified MeetingPlace H.323/SIP IP Gateway Server to the Cisco Unified Communications Manager Configuration Database

How to Complete Prerequisites for Installation or Upgrade

- Verify that your system meets the System Requirements.

  Upgrading a legacy H.323/SIP IP Gateway system to Release 6.x for use with Cisco Unified MeetingPlace Release 6.1 requires a Cisco MCS server. For information, go to http://www.cisco.com/en/US/products/hw/voiceapp/ps378/index.html.
- Complete the Installation Worksheet and the Dial Plan Worksheet.

  These worksheets identify the required information that you need to install and configure Cisco Unified MeetingPlace H.323/SIP IP Gateway to work with VoIP devices.

- By following the instructions in How to Configure Cisco Unified Communications Manager for Use With Cisco Unified MeetingPlace H.323/SIP IP Gateway, configure Cisco Unified Communications Manager for your network.
- If a firewall separates the Cisco Unified MeetingPlace Audio Server system from the IP-gateway server, open port 5003.

  Tip: The Gateway SIM communicates with the Cisco Unified MeetingPlace Audio Server system through port 5003. This port can be bidirectional or unidirectional and can be opened on either the Cisco Unified MeetingPlace Audio Server system or the IP-gateway server depending on your corporate security needs.
- If you are upgrading, make sure you have reviewed Upgrading to Cisco Unified MeetingPlace Release 6.1
- Stop all previously installed Cisco Unified MeetingPlace system services.

How to Configure Cisco Unified Communications Manager for Use With Cisco Unified MeetingPlace H.323/SIP IP Gateway

When a caller dials a number from an IP phone, the call is first directed to Cisco Unified Communications Manager; from there, Cisco Unified Communications Manager associates the dialed number with a route pattern that points to the appropriate IP-gateway server.

Note: Traffic must be allowed to pass through ports 1024-65535 because the IP-gateway server uses these ports to send dynamic TCP and UDP traffic to Cisco Unified Communications Manager.

Before you can install and configure Cisco Unified MeetingPlace H.323/SIP IP Gateway, you must configure Cisco Unified Communications Manager to route calls to the Cisco Unified MeetingPlace H.323/SIP IP Gateway.

To configure Cisco Unified Communications Manager, perform the following procedures in this order:

- Adding the Cisco Unified MeetingPlace H.323/SIP IP Gateway Server to the Cisco Unified Communications Manager Configuration Database
- How to Configure Cisco Unified Communications Manager to Route Calls to the Cisco Unified MeetingPlace H.323/SIP IP Gateway Server

Note: The exact wording of the options you see may differ slightly depending on your version of Cisco Unified Communications Manager.

Adding the Cisco Unified MeetingPlace H.323/SIP IP Gateway Server to the Cisco Unified Communications Manager Configuration Database

To enable Cisco Unified Communications Manager to route calls to IP-gateway servers in your network, you must first add each IP-gateway server to the Cisco Unified Communications Manager as a gateway (for H.323) or trunk (for SIP).

Note: If Cisco Unified MeetingPlace H.323/SIP IP Gateway is installed on a server with more than one IP address (for example, if it is on the same server as Cisco Unified MeetingPlace Web Conferencing Release 6.1), you must define a gateway or trunk for each IP address on the server.

1. From the Cisco Unified Communications Manager server, choose **Start > Programs > Cisco Unified Communications Manager > Communications Manager Administration**.
2. Enter the user name and password in the appropriate fields and click **OK**.
3. In the Cisco Unified Communications Manager Administration page, choose **System > Communications Manager**.
4. To display the Find/List Gateways window, choose **Device > Gateway**.
5. Click the **Add a New Gateway** link.
   The Add a New Gateway window appears.

6. From the Gateway drop-down menu, choose **H.323 Gateway**.
   In the Device Protocol drop-down menu, the H.225 device protocol appears.
7. Click **Next**.
   The Gateway Configuration window appears.
8. Enter information in each field of the Gateway Configuration window, as shown in Table: Fields in the Gateway Configuration Window.
   Note: Maintain the default setting for all other parameters.

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Table: Fields in the Gateway Configuration Window

Field	Description	Task
Device Name	Identifies the Cisco Unified Communications Manager device.	Enter the hostname or IP address of the IP-gateway server. If your IP-gateway resides on a server that has two IP addresses (for example, if it is on the same server as Cisco Unfied MeetingPlace Web Conferencing, Release 6.1), or if you have multiple IP-gateway servers, create a gateway or trunk for each IP address.
Device Pool	Specifies a collection of properties for this device including Cisco Unified Communications Manager Group, Date/Time Group, Region, and Calling Search Space for autoregistration of devices.	Choose **Default**.
Locations	Specifies the total bandwidth that is available for calls to and from this location. A location setting of **None** means that the locations feature does not keep track of the bandwidth that is consumed by this device.	If applicable, choose the location of the IP-gateway server on your network.
Calling Party Selection	Sends directory number information for an outbound call. Information in this field determines which directory number is sent. The following options specify which directory number is sent: • Originator-Sends the directory number of the calling device. • First Redirect Number-Sends the directory number of the redirecting device. • Last Redirect Number-Sends the directory number of the last device to redirect the call.	Choose **Originator**.
Presentation Bit	Determines whether the central office transmits or blocks caller ID.	Choose **None**.
		Choose **None**.

Gatekeeper Registration	Provides address translation and controls access to the LAN for connections between H.323-compliant devices, such as terminals and gateways.	
Media Termination Point (MTP) Required	Implements features that H.323 does not support (such as hold and transfer) via MTP. This check box is only for H.323 clients and H.323 devices that do not support the H.245 Empty Capabilities Set message.	Deselect this option.

9. Click **Insert**.

10. If you will install the IP-gateway software on a server that has more than one IP address (for example, on the same server as Cisco Unified MeetingPlace Web Conferencing, Release 6.1), repeat this procedure for the other IP address.

11. If you will have more than one IP-gateway server, repeat this procedure using the IP-address of the other server(s).

How to Configure Cisco Unified Communications Manager to Route Calls to the Cisco Unified MeetingPlace H.323/SIP IP Gateway Server

If	Perform the Following Procedure(s) in Order
You have only one IP-gateway server and The IP-gateway software is ***not*** installed on a server with multiple IP addresses (for example, on the same server as Cisco Unified MeetingPlace Web Conferencing, Release 6.1)	Assigning a Route Pattern
You have only one IP-gateway server and The IP-gateway software ***is*** installed on a server with multiple IP addresses (for example, on the same server as Cisco Unified MeetingPlace Web Conferencing, Release 6.1)	1. Add a Route Group that includes both gateways or trunks you created in Adding the Cisco Unified MeetingPlace H.323/SIP IP Gateway Server to the Cisco Unified Communications Manager Configuration Database. See Adding a Route Group. 2. Add a Route List that includes only this Route Group. See Adding a Route List. 3. Add a Route Pattern that specifies this Route List for the **Gateway/Route List** parameter. See Assigning a Route Pattern
You have multiple IP-gateway servers	

Adding a Route Group

Perform this procedure if the IP-gateway resides on a server that has more than one IP address (for example, if it is on the same server as Cisco Unified MeetingPlace Web Conferencing, Release 6.1), or if you have more than one IP-gateway server.

1. Choose **Call Routing > Route/Hunt > Route Group**.
2. Click **Add New**.
3. Name your Route Group.
4. For **Distribution Algorithm**, choose **Top Down**.
5. Add the first gateway or trunk:
    1. In the **Available devices** list, click a gateway or trunk that you created in Adding the Cisco Unified MeetingPlace H.323/SIP IP Gateway Server to the Cisco Unified Communications Manager Configuration Database.
    2. Click **Add to Route Group**.
6. Add the second gateway or trunk.
7. Click **Save**.
8. Verify that both gateways or trunks appear in the list of Route Group Members.

Adding a Route List

Add a route list that includes only the Route Group that includes all of the IP addresses for your IP-gateway server(s).

See the documentation for adding a route list in the *Cisco Unified Communications Manager Administration Guide* for your release at http://cisco.com/en/US/products/sw/voicesw/ps556/prod_maintenance_guides_list.html.

Assigning a Route Pattern

After adding the IP addresses of the IP-gateway server(s) to the Cisco Unified Communications Manager configuration database, you must assign a route pattern, which comprises a string of digits (an address) and a set of associated digit manipulations that can be assigned to the IP-gateway server. Route patterns work with route filters and route lists to direct calls to the IP-gateway server and to include, exclude, or modify specific digit patterns.

Tip: Assigning 8XXX to a gateway routes all directory numbers 8000 to 8999 out the gateway. Similarly, 82XX routes directory numbers 8200 to 8299.

1. If applicable, ensure that you have configured the following items in Cisco Unified Communications Manager:
    - Gateway
    - Route list

- Partition
- Route filter

2. In the Cisco Unified Communications Manager Administration page, choose **Route Plan > Route Pattern**.
3. Click **Add a New Route Pattern**.
4. Enter the information in Table: Fields in the Route Pattern Configuration Window into the corresponding fields in the Route Pattern Configuration window.

Table: Fields in the Route Pattern Configuration Window

Field	Description
Route Pattern	Enter the number for IP-gateway that you configured in Adding the Cisco Unified MeetingPlace H.323/SIP IP Gateway Server to the Cisco Unified Communications Manager Configuration Database. This is the number that callers use to connect to the Cisco Unified MeetingPlace Audio Server system.
Numbering Plan	If applicable, choose the appropriate numbering-plan option.
Gateway/Route List	If your IP-gateway resides on a server that has only one IP address: Choose the gateway you created in Adding the Cisco Unified MeetingPlace H.323/SIP IP Gateway Server to the Cisco Unified Communications Manager Configuration Database. If your IP-gateway resides on a server that has more than one IP address, or you have more than one IP-gateway server: Choose the Route List you created in Adding a Route List.
Route Option	Choose **Route this pattern** and deselect the **Provide Outside Dial Tone** box.

5. To save your settings, click **Insert**.

Note: Once you click Insert and the window refreshes, an (Edit) link appears in the window next to the Gateway/Route List field. This link takes you to the Gateway Configuration or Route List Configuration window for reference, depending upon whether the Gateway/Route List field contains a gateway or a route list. You can see the route group that is included in that route list if the route group was specified. If the route group was not specified, you see devices.

How to Install or Upgrade to Cisco Unified MeetingPlace H.323/SIP IP Gateway Software Release 6.x

Note: You must configure Cisco Unified Communications Manager before you install Cisco Unified MeetingPlace H.323/SIP IP Gateway.

This section includes the following procedures:

- Installing Cisco Unified MeetingPlace H.323/SIP IP Gateway Software
- Upgrading to Cisco Unified MeetingPlace H.323/SIP IPGW Software Release 6.x From Cisco Unified MeetingPlace IP Gateway Release 5.x
- Upgrading to Cisco Unified MeetingPlace H.323/SIP IP Gateway Software Release 6.x From Cisco Unified MeetingPlace IP Gateway Release 4.x
- Configuring Cisco Unified MeetingPlace Gateway SIM

- (Optional) Changing Cisco Unified MeetingPlace Gateway SIM Settings

Installing Cisco Unified MeetingPlace H.323/SIP IP Gateway Software

1. Complete the tasks in How to Complete Prerequisites for Installation or Upgrade.
2. To install the software by running the setup.exe file, insert the Cisco Unified MeetingPlace H.323/SIP IP Gateway CD-ROM into the IP-gateway server CD-ROM drive.
3. After the Welcome window appears, click **Next**.
   The Installer window appears.
4. (Optional) If the installation utility does not start, perform the following steps:
   Caution! Do not manually run the ISScript8.Msi file.
   1. Choose **Start > Run**.
   2. Enter *X***:\SETUP** where *X* is the mapped CD-ROM drive.
   3. Click **OK**.
5. Choose **Complete** for setup type and click **Next**.
6. Click **Install**.
   The installation begins.
7. If the Cisco Unified MeetingPlace Gateway SIM InstallShield Wizard begins, install and configure Gateway SIM by completing the steps in Configuring Cisco Unified MeetingPlace Gateway SIM.
8. To complete installation, click **Finish**.
9. If prompted, reboot the IP-gateway server.
10. If you plan to install Cisco Unified MeetingPlace system integration applications on the IP-gateway server, install those applications now.

Note: Before you install multiple Cisco Unified MeetingPlace system integration applications on the IP-gateway server, ensure that your system meets the requirements for integration. For additional information, see *Important Information About Cisco Unified MeetingPlace Products and Cisco Media Convergence Servers* at the following URL:
http://www.cisco.com/univercd/cc/td/doc/product/conf/mtgplace/mpmcs.htm

Note: The H.323/SIP IP Gateway for Cisco Unified MeetingPlace Release 6.x should always be installed with a user ID that has administrative privileges, and the same ID should be used when upgrading to prevent errors due to installer limitations. If an upgrade is required using a different ID, the product must be uninstalled (using the original installer?s ID) and then reinstalled using the new ID.

Upgrading to Cisco Unified MeetingPlace H.323/SIP IPGW Software Release 6.*x* From Cisco Unified MeetingPlace IP Gateway Release 5.*x*

1. Ensure that the tasks in How to Complete Prerequisites for Installation or Upgrade have been completed and that you have collected the configuration information for the currently installed Cisco Unified MeetingPlace IP Gateway release.
2. Install Cisco Unified MeetingPlace H.323/SIP IP Gateway by using the procedures in How to Install or Upgrade to Cisco Unified MeetingPlace H.323/SIP IP Gateway Software Release 6.x.
   The configuration settings are imported during installation.

Upgrading to Cisco Unified MeetingPlace H.323/SIP IP Gateway Software Release 6.*x* From Cisco Unified MeetingPlace IP Gateway Release 4.*x*

1. Ensure that the tasks in How to Complete Prerequisites for Installation or Upgrade have been completed and that you have collected the configuration information for the currently installed Cisco Unified MeetingPlace IP Gateway release.
2. To uninstall Cisco Unified MeetingPlace IP Gateway 4.*x*, choose **Start > Settings > Control Panel > Add/Remove Programs**.
3. Select **MeetingPlace IP Gateway** and click **Remove**.
   Note: Uninstalling Cisco Unified MeetingPlace IP Gateway 4.*x* may also uninstall any previous Cisco Unified MeetingPlace GWSIM release.
4. Install Cisco Unified MeetingPlace H.323/SIP IP Gateway by using the procedures in How to Install or Upgrade to Cisco Unified MeetingPlace H.323/SIP IP Gateway Software Release 6.x.

Configuring Cisco Unified MeetingPlace Gateway SIM

Gateway SIM enables Cisco Unified MeetingPlace H.323/SIP IP Gateway and other Cisco Unified MeetingPlace integration applications to communicate with the Cisco Unified MeetingPlace Audio Server system. With Cisco Unified MeetingPlace H.323/SIP IP Gateway, Gateway SIM installs or upgrades automatically; perform the following steps to configure the settings:

1. After the Welcome window appears, click **Next**.
2. In the Choose Destination Location dialog box, click **Next** to begin installation.
3. To complete installation, click **Finish**.
   The Cisco Unified MeetingPlace Server Entry dialog box appears.
4. Enter the name of the Cisco Unified MeetingPlace Audio Server system and click **Next**.
   The Installation Key Entry dialog box appears.
5. If the Gateway SIM for this gateway has been previously configured in the Cisco Unified MeetingPlace Audio Server system, enter the configured Ethernet address.
   or
   If the Gateway SIM for this gateway has not been previously configured, leave this field empty.
6. Click **Next**.
7. In the Cisco Unified MeetingPlace Client IP Address dialog box, enter the IP address of the IP-gateway server where you are currently installing Gateway SIM and click **Next**.
8. Click **Finish**.
9. To complete installation, go to Installing Cisco Unified MeetingPlace H.323/SIP IP Gateway Software.

Changing Cisco Unified MeetingPlace Gateway SIM Settings

You cannot modify Gateway SIM settings; to change these settings, you must perform the following tasks:

- Delete the current Gateway SIM configuration
- Add a new Gateway SIM configuration

1. To stop all Cisco Unified MeetingPlace system services, choose **Start > Programs > Administrative Tools > Services**.
2. Right-click each Cisco Unified MeetingPlace system service and choose **Stop**.
3. Choose **Start > Programs > MeetingPlace Applications > MeetingPlace Gateway Configuration**.
   The Cisco Unified MeetingPlace Gateway Configurations dialog box appears.
4. From the list on the left, select the name of the Cisco Unified MeetingPlace Audio Server system.
5. Click **Delete**.
6. Click **Add**.
   The MeetingPlace Server Entry dialog box appears.
7. Enter the configuration information from Table: MeetingPlace Server Entry Dialog Box in to the corresponding fields.

Table: MeetingPlace Server Entry Dialog Box

Field	Description
Server Name	Enter the hostname of the Cisco Unified MeetingPlace Audio Server system.
Shadow Server	Leave this field empty; it is not used by Cisco Unified MeetingPlace H.323/SIP IP Gateway but may be used by other gateways.
Client IP Address	Enter the IP address of the computer where the Gateway SIM is being installed.
Transfer Destination	Leave this field empty; it is not used by Cisco Unified MeetingPlace H.323/SIP IP Gateway but may be used by other gateways.
Link Encryption Disabled	**Note:** We do not recommend Link Encryption Disabled. If you want to encrypt communications between the Gateway SIM and Cisco Unified MeetingPlace Audio Server system, do not select this option. Encryption uses a 56-bit Data Encryption Standard (DES) algorithm with a secret key. To send communications in clear text, click this option.

8. Click **OK.**

9. To apply the configuration settings, click **OK** again.

10. To restart the Gateway SIM, choose **Start > Programs > Administrative Tools > Services**.

11. Right-click MeetingPlace GWSIM and choose **Start**.

Uninstalling Cisco Unified MeetingPlace H.323/SIP IP Gateway Software Release 6.x

Caution! Before you uninstall Cisco Unified MeetingPlace H.323/SIP IP Gateway, ensure that you have configured Cisco Unified Communications Manager to route calls to another IP gateway.

1. To stop all Cisco Unified MeetingPlace services, choose **Start > Programs > Administrative Tools > Services**.
2. Right-click on each Cisco Unified MeetingPlace service and choose **Stop**.
3. Choose **Start > Settings > Control Panel > Add/Remove Programs**.
4. Select **MeetingPlace IP Gateway** and click **Remove**.

5. Restart the IP-gateway server.
6. To verify that Cisco Unified MeetingPlace H.323/SIP IP Gateway was successfully uninstalled, review the list of programs in Add/Remove Programs.