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Configuring SIP on Cisco Unified MeetingPlace

Complete this task to connect Cisco Unified MeetingPlace to supported call-control devices.

Before You Begin

Complete [Prerequisites for Configuring Call Control](#).

Procedure

1. Log in to the Administration Center.
2. Click **System Configuration > Call Configuration > SIP Configuration**.
3. Configure the fields on the [SIP Configuration Page](#).
4. Click **Save**.

Related Topics

- [Table: Field Reference: SIP Configuration Page](#)

What to Do Next

Proceed to [Configuring Cisco Unified Communications Manager 6.x or a Later Release: SIP Trunk to Cisco Unified MeetingPlace](#).

Configuring Cisco Unified Communications Manager 6.x or a Later Release: SIP Trunk to Cisco Unified MeetingPlace

Before You Begin

- Complete [Configuring SIP on Cisco Unified MeetingPlace](#).
- We recommend that you configure a Calling Search Space in Cisco Unified Communications Manager that does the following:
 - ◆ Allows dial-out calls to meeting participants and the help desk [Attendant](#).

- ◆ Prevents toll fraud by blocking unwanted dial-out calls, for example, to international or premium-rate telephone numbers.

See the Administration Guide for your release of Cisco Unified Communications Manager at http://www.cisco.com/en/US/products/sw/voicesw/ps556/prod_maintenance_guides_list.html.

- We recommend that you create a SIP trunk security profile in Cisco Unified Communications Manager specifically for Cisco Unified MeetingPlace.

See [Configuring a SIP Trunk Security Profile in Cisco Unified Communications Manager for Cisco Unified MeetingPlace](#).

- If you want to prevent conference disruption by music when a user places a call on hold, complete [Configuring Cisco Unified Communications Manager: Music On Hold](#).
- You perform this task in the Cisco Unified Communications Manager Administration pages. Because the pages and menus vary by release, you should check the Cisco Unified Communications Manager Administration online help for step-by-step instructions that are specific to your release.

Procedure

1. Go to **http://<ccm-server>/**, where <ccm-server> is the fully-qualified domain name or IP address of the Cisco Unified Communications Manager server.
2. Log in with your Cisco Unified Communications Manager administrator username and password.
3. Click **Device > Trunk**.
4. Click **Add New**.
5. In the Trunk type field, select **SIP Trunk**.
6. Click **Next**.
7. Configure the fields described in [Table: Fields for Adding a SIP Trunk in Cisco Unified Communications Manager 6.x or a Later Release](#).

Table: Fields for Adding a SIP Trunk in Cisco Unified Communications Manager 6.x or a Later Release

Field	Action
Device Name	Enter a unique identifier for this trunk, such as the name or IP address of the Cisco Unified MeetingPlace server.
Device Pool	The device pool must use a codec that is compatible with the conferencing gateway (or bridge).
AAR Group	For security and toll fraud prevention, use a device pool and an automatic alternate routing (AAR) group that will block any undesired phone numbers from being dialed out.
Media Resource Group List	(Optional) If Cisco Unified MeetingPlace-supported endpoints are registered to this Cisco Unified Communications Manager, then we recommend that you choose one of the following to prevent conference calls from being disrupted by music whenever a user places a call on hold:

	<ul style="list-style-type: none"> • Default value of <None>. • A Media Resource Group List that does <i>not</i> contain music on hold resources. <p>Note: See Configuring Cisco Unified Communications Manager: Music On Hold.</p>
Media Termination Point Required	Uncheck this check box.
Destination Address	The DNS hostname or IP address of the Cisco Unified MeetingPlace Application Server. In an Application Server Failover deployment, make sure you enter the shared hostname and IP address of eth0.
Destination Port	Keep the default value of 5060 .
SIP Trunk Security Profile	Select the SIP trunk security profile that you created specifically for Cisco Unified MeetingPlace. If you did not create a SIP trunk security profile, then select the default Non Secure SIP Trunk Profile .
Rerouting Calling Search Space	It should be set appropriately to ensure call transfers (out to attendant or other systems) are successful. Consult your Communications Manager administrator for the appropriate CSS to use.
DTMF Signaling Method	Select No Preference .

8. Configure all other required fields appropriately for your current deployment.

If you configured a Calling Search Space to block unwanted dial-out calls, then apply the Calling Search Space accordingly to the SIP trunk.

Tip: For field descriptions, click **Help > This Page**.

9. Click **Save**.

Related Topics

- [Configuring Application Server Failover for Cisco Unified MeetingPlace](#)
- [Integrating Cisco Unified MeetingPlace with Cisco Unified Communications Manager](#)

What to Do Next

Proceed to [Configuring Cisco Unified Communications Manager 6.x or a Later Release: Route Patterns](#).

Configuring Cisco Unified Communications Manager 6.x or a Later Release: Route Patterns

Table: Fields for Adding a SIP Trunk in Cisco Unified Communications Manager 6.x or a Later Release

Route patterns enable Cisco Unified Communications Manager to route calls to Cisco Unified MeetingPlace by associating phone numbers with the SIP trunk.

Before You Begin

- Complete [Configuring Cisco Unified Communications Manager 6.x or a Later Release: SIP Trunk to Cisco Unified MeetingPlace](#).
- Write down each of the following phone numbers from the Cisco Unified MeetingPlace Administration Center:
 - ◆ Access phone numbers configured on the [Usage Configuration Page](#)
 - ◆ Direct Inward Dial (DID) numbers-only if you enable DID through the [Route calls to meeting ID that matches DID](#) field
- You perform this task in the Cisco Unified Communications Manager Administration pages. Because the pages and menus vary by release, you should check the Cisco Unified Communications Manager Administration online help for step-by-step instructions that are specific to your release.

Procedure

1. Go to **http://<ccm-server>/**, where <ccm-server> is the fully-qualified domain name or IP address of the Cisco Unified Communications Manager server.
2. Log in with your Cisco Unified Communications Manager administrator username and password.
3. Click **Call Routing > Route/Hunt > Route Pattern**.
4. Click **Add New**.
5. Configure the fields described in [Table: Fields for Adding a Route Pattern in Cisco Unified Communications Manager 6.x or a Later Release](#).

Table: Fields for Adding a Route Pattern in Cisco Unified Communications Manager 6.x or a Later Release

Field	Action
Route Pattern	Enter the Cisco Unified MeetingPlace phone number. Requirements: <ul style="list-style-type: none"> • This number must not conflict with any other route pattern defined in this Cisco Unified Communications Manager cluster. • Do not enter any spaces in this field.
Gateway/Route List	Select the Device Name of the SIP trunk to Cisco Unified MeetingPlace.
Call Classification	Select OnNet .
Provide Outside Dial Tone	Uncheck the check box.

6. Configure all other required fields appropriately for your current deployment.

Tip: For field descriptions, click **Help > This Page**.

7. Click **Save**.
8. Click **OK** to any pop-up dialog box messages that you see.
9. Repeat this procedure as necessary to route calls to each access phone number and DID number for your Cisco Unified MeetingPlace system.

Related Topics

- [SIP Configuration Page](#)
- [Configuring Access Phone Numbers and Notification Labels](#)
- [Configuring Direct Inward Dial for Cisco Unified MeetingPlace](#)

What to Do Next

If you are using Cisco Unified Communications Manager 6.1 or a later release to provide front-end signaling for Cisco Unified MeetingPlace, proceed to one of the following sections:

- [Configuring SIP Trunks Between Cisco Unified Communications Manager 5.x and Cisco Unified MeetingPlace 6.1 or a Later Release](#)
- [Configuring Inter-Cluster Trunks Between Cisco Unified Communications Manager 4.x or 5.x and Cisco Unified Communications Manager 6.1 or a Later Release](#)

Otherwise, proceed to [Verifying the Call-Control Configuration](#).

Configuring SIP Trunks Between Cisco Unified Communications Manager 5.x and Cisco Unified MeetingPlace 6.1 or a Later Release

Perform this task if you have already deployed Cisco Unified Communications Manager 5.x and are using Cisco Unified Communications Manager 6.1 or a later release to provide front-end signaling for Cisco Unified MeetingPlace.

Before You Begin

- You may instead choose to configure inter-cluster trunks (instead of SIP trunks) between Cisco Unified Communications Manager 5.x and Cisco Unified Communications Manager 6.1 or a later release. If this is the case, then do not perform this task. Instead, see the [Configuring Inter-Cluster Trunks Between Cisco Unified Communications Manager 4.x or 5.x and Cisco Unified Communications Manager 6.1 or a Later Release](#).
- Complete [Configuring Cisco Unified Communications Manager 6.x or a Later Release: Route Patterns](#).
- Perform this task on *both* of the following servers:
 - ◆ Cisco Unified Communications Manager 5.x
 - ◆ Cisco Unified Communications Manager 6.1 or a later release
- We recommend that you configure a Calling Search Space in Cisco Unified Communications Manager that does the following:
 - ◆ Allows dial-out calls to meeting participants and the help desk [Attendant](#).
 - ◆ Prevents toll fraud by blocking unwanted dial-out calls, for example, to international or premium-rate telephone numbers.

See the Administration Guide for your release of Cisco Unified Communications Manager at http://www.cisco.com/en/US/products/sw/voicesw/ps556/prod_maintenance_guides_list.html.

- You perform this task in the Cisco Unified Communications Manager Administration pages. Because the pages and menus vary by release, you should check the Cisco Unified Communications Manager Administration online help for step-by-step instructions that are specific to your release.

Procedure

1. Go to **<http://<ccm-server>/ccmadmin/main.asp>**, where *<ccm-server>* is the fully-qualified domain name or IP address of the Cisco Unified Communications Manager server.
2. Log in with your Cisco Unified Communications Manager administrator username and password.
3. Click **Device > Trunk**.
4. Click **Add New**.
5. In the Trunk Type field, select **SIP Trunk**.
6. Click **Next**.
7. Configure the fields described in [Table: Fields for Adding a SIP Trunk in Cisco Unified Communications Manager](#).

Table: Fields for Adding a SIP Trunk in Cisco Unified Communications Manager

Field	Action
Device Name	Enter a unique identifier for this trunk, for example: <ul style="list-style-type: none"> • If you are configuring Cisco Unified Communications Manager 5.x, then enter the name or IP address of the Cisco Unified Communications Manager 6.1 (or a later release) server that provides front-end signaling for Cisco Unified MeetingPlace.

	<ul style="list-style-type: none"> • If you are configuring Cisco Unified Communications Manager Release 6.1 (or a later release), then enter the name or IP address of the Cisco Unified Communications Manager 5.x server.
Device Pool	<p>If no device pools are defined, select Default.</p> <p>If device pools are already defined, then either create a new device pool or choose an existing device pool for a region with a codec that is compatible with the conferencing gateway (or bridge).</p>
Media Resource Group List	<p>(Optional) If Cisco Unified MeetingPlace-supported endpoints are registered to this Cisco Unified Communications Manager, then we recommend that you choose one of the following to prevent conference calls from being disrupted by music whenever a user places a call on hold:</p> <ul style="list-style-type: none"> • Default value of <None>. • A Media Resource Group List that does <i>not</i> contain music on hold resources. <p>Note: See Configuring Cisco Unified Communications Manager: Music On Hold.</p>
Media Termination Point Required	Uncheck this check box.
Destination Address	<p>Enter the destination IP address, specifically:</p> <ul style="list-style-type: none"> • If you are configuring Cisco Unified Communications Manager 5.x, then enter the IP address of the Cisco Unified Communications Manager 6.1 (or a later release) server that provides front-end signaling for Cisco Unified MeetingPlace. • If you are configuring Cisco Unified Communications Manager 6.1 or a later release, then enter the name or IP address of the Cisco Unified Communications Manager 5.x server.
Destination Port	Keep the default value of 5060 .
Incoming Port	

8. Configure all other required fields appropriately for your current deployment.

If you configured a Calling Search Space to block unwanted dial-out calls, then apply the Calling Search Space accordingly to the SIP trunk.

Tip: For field descriptions, click **Help > This Page**.

9. Click **Save**.

10. Repeat this task so that *both* of the following servers are configured with SIP trunks that point to each other:

- Cisco Unified Communications Manager 5.x
- Cisco Unified Communications Manager 6.1 or a later release

Related Topics

- [Configuring Operator Assistance](#)

What to Do Next

Proceed to [Configuring Cisco Unified Communications Manager 4.x or 5.x: Route Patterns](#).

Configuring Inter-Cluster Trunks Between Cisco Unified Communications Manager 4.x or 5.x and Cisco Unified Communications Manager 6.1 or a Later Release

Perform this task if you already deployed Cisco Unified Communications Manager 4.x or 5.x and are using Cisco Unified Communications Manager 6.1 or a later release to provide front-end signaling for Cisco Unified MeetingPlace.

Before You Begin

- You may instead choose to configure SIP trunks (instead of inter-cluster trunks) between Cisco Unified Communications Manager 5.x and Cisco Unified MeetingPlace 6.1 or a later release. If this is the case, then do not perform this task. Instead, see [Configuring SIP Trunks Between Cisco Unified Communications Manager 5.x and Cisco Unified MeetingPlace 6.1 or a Later Release](#).
- Complete [Configuring Cisco Unified Communications Manager 6.x or a Later Release: Route Patterns](#).
- Perform this task on *both* of the following servers:
 - ◆ Cisco Unified Communications Manager 4.x or 5.x
 - ◆ Cisco Unified Communications Manager 6.1 or a later release
- We recommend that you configure a Calling Search Space in Cisco Unified Communications Manager that does the following:
 - ◆ Allows dial-out calls to meeting participants and the help desk [Attendant](#).
 - ◆ Prevents toll fraud by blocking unwanted dial-out calls, for example, to international or premium-rate telephone numbers.

See the Administration Guide for your release of Cisco Unified Communications Manager at http://www.cisco.com/en/US/products/sw/voicesw/ps556/prod_maintenance_guides_list.html.

- You perform this task in the Cisco Unified Communications Manager Administration pages. Because the pages and menus vary by release, you should check the Cisco Unified Communications Manager Administration online help for step-by-step instructions that are specific to your release.

Procedure

1. Go to **http://<ccm-server>/ccmadmin/main.asp**, where <ccm-server> is the fully-qualified domain name or IP address of the Cisco Unified Communications Manager server.
2. Log in with your Cisco Unified Communications Manager administrator username and password.
3. Click **Device > Trunk**.
4. Click **Add New**.
5. In the Trunk type field, select **Inter-Cluster Trunk (Non-Gatekeeper Controlled)**.
6. Click **Next**.
7. Configure the fields described in [Table: Fields for Adding an Inter-Cluster Trunk in Cisco Unified Communications Manager](#).

Table: Fields for Adding an Inter-Cluster Trunk in Cisco Unified Communications Manager

Field	Action
Device Name	Enter a unique identifier for this trunk, for example: <ul style="list-style-type: none"> • If you are configuring Cisco Unified Communications Manager 4.x or 5.x, then enter the name or IP address of the Cisco Unified Communications Manager 6.1 (or a later release) server that provides front-end signaling for Cisco Unified MeetingPlace. • If you are configuring Cisco Unified Communications Manager Release 6.1 (or a later release), then enter the name or IP address of the Cisco Unified Communications Manager 4.x or 5.x server.
Device Pool	If no device pools are defined, select Default . If device pools are already defined, then either create a new device pool or choose an existing device pool for a region with a codec that is compatible with the conferencing gateway (or bridge).
Media Resource Group List	(Optional) If Cisco Unified MeetingPlace-supported endpoints are registered to this Cisco Unified Communications Manager, then we recommend that you choose one of the following to prevent conference calls from being disrupted by music whenever a user places a call on hold: <ul style="list-style-type: none"> • Default value of <None>. • A Media Resource Group List that does <i>not</i> contain music on hold resources. Note: See Configuring Cisco Unified Communications Manager: Music On Hold .
Media Termination Point Required	Uncheck this check box.
Server 1 IP Address/Host Name	Identify the target server, specifically: <ul style="list-style-type: none"> • If you are configuring Cisco Unified Communications Manager 4.x or 5.x, specify the Cisco Unified Communications Manager 6.1 (or a later release) server that provides front-end signaling for Cisco Unified MeetingPlace. • If you are configuring Cisco Unified Communications Manager Release 6.1 (or a later release), specify the Cisco Unified Communications Manager 4.x or 5.x

	server.
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8. Configure all other required fields appropriately for your current deployment.

If you configured a Calling Search Space to block unwanted dial-out calls, apply the Calling Search Space accordingly to the SIP trunk.

Tip: For field descriptions, click **Help > This Page**.

9. Click **Save**.

10. Repeat this task so that *both* of the following servers are configured with SIP trunks that point to each other:

- Cisco Unified Communications Manager 4.x or 5.x
- Cisco Unified Communications Manager 6.1 or a later release

What to Do Next

Proceed to [Configuring Cisco Unified Communications Manager 4.x or 5.x: Route Patterns](#).

Configuring Cisco Unified Communications Manager 4.x or 5.x: Route Patterns

Use this procedure to configure route patterns to enable Cisco Unified Communications Manager 4.x or 5.x to route calls that are placed to Cisco Unified MeetingPlace phone numbers. The route patterns associate the Cisco Unified MeetingPlace phone numbers with one of the following, depending on your deployment:

- Inter-cluster trunk to the Cisco Unified Communications Manager Release 6.1 (or a later release) server that provides front-end signaling for Cisco Unified MeetingPlace
- (Cisco Unified Communications Manager 5.x only) SIP trunk to the Cisco Unified Communications Manager Release 6.1 (or a later release) server that provides front-end signaling for Cisco Unified MeetingPlace

Before You Begin

- Complete [Configuring SIP on Cisco Unified MeetingPlace](#).
- Complete one of the following items, depending on your deployment:
 - ◆ [Configuring SIP Trunks Between Cisco Unified Communications Manager 5.x and Cisco Unified MeetingPlace 6.1 or a Later Release](#)

◆ Configuring Inter-Cluster Trunks Between Cisco Unified Communications Manager 4.x or 5.x and Cisco Unified Communications Manager 6.1 or a Later Release

- Write down each of the following phone numbers from the Cisco Unified MeetingPlace Administration Center:
 - ◆ Access phone numbers configured on the Usage Configuration Page
 - ◆ Direct Inward Dial (DID) numbers-only if you enable DID through the Route calls to meeting ID that matches DID field
- You perform this task in the Cisco Unified Communications Manager Administration pages. Because the pages and menus vary by release, you should check the Cisco Unified Communications Manager Administration online help for step-by-step instructions that are specific to your release.

Procedure

1. Go to **http://<ccm-server>/ccmadmin/main.asp**, where <ccm-server> is the fully-qualified domain name or IP address of the Cisco Unified Communications Manager server.
2. Log in with your Cisco Unified Communications Manager administrator username and password.
3. Click **Call Routing > Route/Hunt > Route Pattern**.
4. Click **Add New**.
5. Configure the fields described in Table: Fields for Adding a Route Pattern in Cisco Unified Communications Manager 4.x or 5.x.

Table: Fields for Adding a Route Pattern in Cisco Unified Communications Manager 4.x or 5.x

Field	Action
Route Pattern	Enter the Cisco Unified MeetingPlace phone number. Requirements: <ul style="list-style-type: none"> • This number must not conflict with any other route pattern defined in this Cisco Unified Communications Manager cluster. • Do not enter any spaces in this field.
Gateway/Route List	Select the <u>Device Name</u> of one of the following, depending on your deployment: <ul style="list-style-type: none"> • Inter-cluster trunk to the Cisco Unified Communications Manager Release 6.1 (or a later release) server that provides front-end signaling for Cisco Unified MeetingPlace. • (Cisco Unified Communications Manager 5.x only) SIP trunk to the Cisco Unified Communications Manager Release 6.1 (or a later release) server that provides front-end signaling for Cisco Unified MeetingPlace.
Call Classification	Select OffNet .

6. Configure all other required fields appropriately for your current deployment.

Tip: For field descriptions, click **Help > This Page**.

7. Click **Save**.
8. Click **OK** to any pop-up dialog box messages that you see.
9. Repeat this procedure as necessary to route calls to each access phone number and DID number for your Cisco Unified MeetingPlace system.

Related Topics

- [Configuring Access Phone Numbers and Notification Labels](#)
- [Configuring Direct Inward Dial for Cisco Unified MeetingPlace](#)

What to Do Next

Proceed to [Verifying the Call-Control Configuration](#).

Verifying the Call-Control Configuration

Procedure

1. Call one of the Cisco Unified MeetingPlace access phone numbers configured on the [Usage Configuration Page](#) of the Administration Center.
2. Verify that you hear the Cisco Unified MeetingPlace voice prompts.

Troubleshooting Tips

See [Troubleshooting Telephone Issues for Cisco Unified MeetingPlace](#).

Related Topics

- [Verifying Basic Voice and Video Conferencing Using the Telephone User Interface](#)
- [Verifying Basic Voice and Video Conferencing Using the End-User Web Interface](#)
- [Configuring Access Phone Numbers and Notification Labels](#) module
- [Configuring Direct Inward Dial for Cisco Unified MeetingPlace](#) module

What To Do Next

- If your network includes H.323 video endpoints, proceed to [How to Configure Call Control for Video Conferencing with H.323 Endpoints.](#)
- For Cisco Unified Communications Manager environments, we recommend disabling the Music on Hold (MoH) feature for Cisco Unified MeetingPlace. See [Cisco Unified MeetingPlace, Release 7.0 -- Configuring Cisco Unified Communications Manager: Music On Hold.](#)