



## Voice and Video

- [Meeting Controls for CMS Meetings, on page 1](#)
- [Meeting Controls for Webex Meetings, on page 3](#)
- [Meeting Control for CMR Meetings, on page 3](#)
- [Bridge Escalations, on page 6](#)
- [Call Park, on page 7](#)
- [Call Pickup, on page 7](#)
- [Dial via Office, on page 13](#)
- [Far End Camera Control \(FECC\), on page 20](#)
- [Flexible DSCP Values, on page 21](#)
- [Hunt Group, on page 21](#)
- [Jabber to Jabber Call, on page 25](#)
- [Let Users Without Voicemail Ignore Calls, on page 28](#)
- [Move to Mobile, on page 29](#)
- [Multiline, on page 34](#)
- [Personal Rooms, on page 35](#)
- [Push Notification Service for Cisco Jabber Video and Voice Calls, on page 36](#)
- [Single Number Reach, on page 39](#)
- [URI Dialing, on page 41](#)
- [Voicemail Avoidance, on page 44](#)
- [Voice Messages, on page 47](#)
- [Auto Answer Calls, on page 48](#)
- [Jabber with Cisco Unified Contact Center, on page 48](#)
- [Reduce Server Load from Phone Number Resolution Requests, on page 49](#)

## Meeting Controls for CMS Meetings

Clients			
Windows	Mac	iPhone and iPad	Android
Yes	Yes	Yes	Yes

Deployments			
On-Premises	Webex Messenger	Team Messaging Mode	Softphone for VDI
Yes	Yes	Yes	Yes

Jabber provides meeting control functions through the Cisco Meeting Server (CMS) ActiveControl feature. The meeting control functions include participant lists, muting participants, dropping participants, and changing the video layout.

To use ActiveControl requires the following in your deployment:

- The call path between the endpoint and Meeting Server supports iX media end to end.
- Appropriate permissions enabled in Meeting Server.

For more information on using CMS, see the [Cisco Meeting Server, Deployments with Expressway Planning and Preparation Guide](#).

As of Release 12.5, Jabber can access Cisco Meeting Server conferences as a SIP device through ActiveControl. You can enter an ActiveControl conference by either:

- Dialing into a room that is configured on CMS
- Merging two calls when a CMS room is configured as the conference bridge

### Before you begin

To set up ActiveControl, you need:

- Cisco Meeting Server Release 2.3 or later
- Cisco Unified Communications Manager 12.5.1.11900 or later
- Cisco Expressway for Mobile and Remote Access X12.5.1 or later (Optional if Jabber is in your corporate network, not using MRA)




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**Note** These are the releases with full support for ActiveControl. Earlier releases of Unified CM and Expressway did not support the control functions over Expressway.

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### Procedure

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- Step 1** Configure a SIP trunk in Cisco Unified Communications Manager with CMS to enable communication using SIP signals. For more information, see [System Configuration Guide for Cisco Unified Communications Manager](#).
- Step 2** Configure a route pattern in Cisco Unified Communications Manager to route inbound and outbound SIP calls. For more information, see the *Configure Call Routing* chapter in [System Configuration Guide for Cisco Unified Communications Manager](#).
- Step 3** Set up rules in CMS for outbound SIP call routing to the Cisco Unified Communications Manager server. For more information, see the [Cisco Meeting Server with Cisco Unified Communications Manager Deployment Guide](#).

- Step 4** Configure your CMS space to manage your conference resources. For more information, see [Cisco Meeting Server Release API Reference Guide](#).

## Meeting Controls for Webex Meetings

Clients			
Windows	Mac	iPhone and iPad	Android
Yes	Yes	Yes	Yes

Deployments			
On-Premises	Webex Messenger	Team Messaging Mode	Softphone for VDI
Yes	Yes	Yes	Yes

Set up Cisco Jabber so users can join Webex meetings from Jabber without having to launch Webex.

### Procedure

- Step 1** Configure your outgoing firewall to allow the following domains: \*.ciscopark.com, \*.wbx2.com, \*.webex.com, \*.clouddrive.com.
- Step 2** Configure a SIP trunk in Cisco Unified Communications Manager with Expressway for MRA and then Webex to enable communication using SIP signals. For more information, see [System Configuration Guide for Cisco Unified Communications Manager](#).
- Step 3** Configure a route pattern in Cisco Unified Communications Manager to route inbound and outbound SIP calls. For more information, see the *Configure Call Routing* chapter in [System Configuration Guide for Cisco Unified Communications Manager](#).
- Step 4** Set up rules in Webex for outbound SIP call routing to the Cisco Unified Communications Manager server. For more information, see the [Cisco Meeting Server 2.3 with Cisco Unified Communications Manager Deployment Guide](#).

## Meeting Control for CMR Meetings

Clients			
Windows	Mac	iPhone and iPad	Android
Yes	Yes	Yes	Yes

Deployments			
On-Premises	Webex Messenger	Team Messaging Mode	Softphone for VDI
—	Yes	Yes	Yes

Cisco Collaboration Meeting Rooms (CMR) Cloud provides easy access for users to join or start a Cisco Webex meeting. Cisco Jabber provides users with the ability to access the meeting either using Cisco Webex interface or join using video.

There's a limitation on CMR Cloud join experience for attendees of scheduled CMR Cloud meetings. This limitation a Mac users and Windows users who haven't enabled Outlook calendar integration. Because of a server limitation, attendees for these deployment scenarios can join the meeting only by using Cisco Webex. Hosts enjoy the full experience, as does anyone invited to join ad hoc CMR Cloud meetings.

User in CTI control mode can join in directly, rather than by using Webex.

This table lists Jabber support for Cisco Meeting Server methods of joining meetings:

Join in Meeting	Jabber Support
Join in meeting from cross launch in Page	N
Join in meeting from Calendar	N
Join in meeting as SIP URL	Y
Join in meeting as HTTP link	Y
Join in meeting by meeting number	Y
Join in meeting using PIN (host and Guest)	Use Room Number instead
Rejoin in meetings	Y



**Note** As of Release 12.7, Jabber desktop users can choose to join meetings with Jabber or Webex. Administrators can configure a default for the client to use; in this case, the choice doesn't appear in the client.

This table lists the CMR controls that Cisco Jabber supports by client:

Control	Jabber for Windows	Jabber for Mac	Jabber for Android	Jabber for iPhone and iPad	Jabber Softphone for VDI
Device Indicator (Video and Audio)	Y	Y	N	N	Y
Active Speaker	Y	Y	Y	Y	Y
Participant List (Host and Guest)	Y	Y	Y	Y	Y
Assign Host	Y	Y	Y	Y	Y

Control	Jabber for Windows	Jabber for Mac	Jabber for Android	Jabber for iPhone and iPad	Jabber Softphone for VDI
Mute / Unmute	Y	Y	Y	Y	Y
Mute All / Unmute All	Y	Y	Y	Y	Y
Self-Mute / Unmute	Y	Y	Y	Y	Y
Drop Participant	Y	Y	Y	Y	Y
Admit People from Lobby	Y	Y	Y	Y	Y
Wait in Lobby	Y	Y	Y	Y	Y
End Meeting	Y	Y	Y	Y	Y
Leave Meeting and Assign Host	Y	Y	Y	Y	Y
Lock and Unlock Meeting	Y	Y	Y	Y	Y
Start and Stop Recording	Y	Y	Y	Y	Y
Copy Meeting Link	Y	Y	N	N	Y
Video Layout	Y	Y	Y	Y	Y
Desktop Sharing Send and Receive	Y	Y	Y	Y	Y
Sharing Layout Change	Y	Y	Y	Y	Y
Meeting Information	Y	Y	N	N	Y
Recording Pause / Resume	Y	Y	N	N	Y
Paired Participant with Teams	Y	Y	N	N	Y
Add Participant	N	N	N	N	N
Mobile Remote Access	Y	Y	Y	Y	Y

### Before you begin

WebEx Meeting Center videos (CMR) Cloud is available on Cisco Webex Meetings.

## Procedure

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- Step 1** Configure the Collaboration Meeting Room options.
- For more information, visit <https://help.webex.com/>:
- Site Administration—<https://help.webex.com/en-us/6maub2/Configure-Webex-Meetings-in-Cisco-Webex-Site-Administration>
  - Control Hub—<https://help.webex.com/en-us/n8pgczj/Configure-Teleconferencing-Options-for-a-Webex-Site-in-Cisco-Webex-Control-Hub>
- Step 2** Enable Collaboration Meeting Rooms for your users, on Cisco Webex Meetings.
- Step 3** Enable Common Identity (CI) for your Webex site.
- If your Webex site isn't CI-enabled, users who join meetings from Jabber get audio and video controls only. They can also share their screens.
- Step 4** Collaboration Meeting Room features uses SIP URI, you must enable URI dialing for your users on Cisco Unified Communications Manager. For more information on URI dialing, see the *URI Dialing* topic.
- 

## Bridge Escalations

Clients			
Windows	Mac	iPhone and iPad	Android
Yes	Yes	Yes	Yes

Deployments			
On-Premises	Webex Messenger	Team Messaging Mode	Softphone for VDI
Yes	Yes	Yes	Yes

Bridge escalations allow users to quickly escalate a group chat to a conference call. Participants are automatically added without the need to merge them into the conference call.

## Procedure

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- Step 1** Enable bridge escalations in Cisco Jabber clients by setting the `EnableBridgeConferencing` parameter to true in the `jabber-config.xml` file.
- Step 2** (Optional) Specify a mask for the room URI in the `UserBridgeUriAdmin` parameter in the `jabber-config.xml` file. If you don't specify a mask the user can enter a DN or a SIP URI in the client.
- Step 3** Enable URI dialing to allow your users enter a SIP URI for the conference call number. For more information on URI dialing, see the *URI Dialing* topic.
-

# Call Park

Clients			
Windows	Mac	iPhone and iPad	Android
Yes	Yes	Yes	Yes

Deployments			
On-Premises	Webex Messenger	Team Messaging Mode	Softphone for VDI
Yes	Yes	Yes	Yes

You can use call park to place a call on hold and pick it up from another phone in a Cisco Unified Communications Manager system. Call park must be enabled and extension numbers must be defined on each Cisco Unified Communications Manager node in the cluster. You can define either a single directory number or a range of directory numbers for use as call park extension numbers.

Complete the following tasks to enable call park. For detailed instructions, see the *Feature Configuration Guide for Cisco Unified Communications Manager*.

## Procedure

- 
- Step 1** Configure cluster wide call park  
 [Optional] Configure call park for the entire cluster, or use the procedure in Step 3 to configure call park on individual nodes within the cluster.
- Step 2** Configure a partition  
 Create a partition to add a call park number.
- Step 3** Configure a call park number  
 Configure a call park number to use call park across nodes in a cluster.  
 You can define either a single directory number or a range of directory numbers for use as call park extension numbers. You can park only one call at each call park extension number.
- 

# Call Pickup

Clients			
Windows	Mac	iPhone and iPad	Android
Yes	Yes	Yes	Yes

Deployments			
On-Premises	Webex Messenger	Team Messaging Mode	Softphone for VDI
Yes	Yes	Yes	Yes

The Call Pickup feature allows users to answer calls that come in on a directory number other than their own. Call pickup groups have assigned directory numbers. Cisco Unified Communications Manager (Unified CM) automatically dials the appropriate call pickup group number. Users select **Pickup** to answer the call.

### Group call pickup

This setting allows users to pick up incoming calls in another group. Users enter the group pickup number, select **Pickup**, and Unified CM automatically dials the appropriate call pickup group number. The user can then pick up an available call in that group.

### Other group pickup

This setting allows users to pick up incoming calls in a group that is associated with their group. When the user selects **Other Pickup**, Unified CM automatically searches for the incoming call in the associated groups and connects the call.

### Directed call pickup

This setting allows users to pick up an incoming call on a directory number. Users enter the directory number, select **Pickup** and Unified CM connects the incoming call.

To enable call pickup, you use these parameters in the `jabber-config.xml` file, depending on the types of call pickup that you support:

```
<Policies>
  <EnableCallPickup>true</EnableCallPickup>
  <EnableGroupCallPickup>true</EnableGroupCallPickup>
  <EnableOtherGroupPickup>true</EnableOtherGroupPickup>
  <EnableHuntGroup>true</EnableHuntGroup>
</Policies>
```

For more information about configuring call pickup, see the *Feature Configuration Guide for Cisco Unified Communications Manager*.

### Call Pickup Notifications

For multiple incoming calls, a notification, *Call(s) available for pickup*, appears. When the user answers a call, the user gets connected to the longest ringing call.

### Desk Phone Mode

In desk phone mode, the following limitations apply:

- The Unified CM notification settings aren't supported for the pickup group. The call pickup notification that displays is *CallerA->CallerB*.
- The Unified CM settings for audio and visual settings aren't supported. The visual alerts always appear.

### Shared Line Behavior

For users that have a desk phone and also audio on computer with a shared line, the following limitations apply:

- For an attempt to pick up a call using the client when no call is available, *No call available for Pickup* displays on the desk phone.



- For an attempt to pick up a call using the desk phone when no call is available, *No call available for Pickup* displays on the client.

### User Not a Member of an Associated Group

For an incoming call to another pickup group where the user isn't a member of an associated group:

- You can use directed call pickup to pick up the incoming call.
- Group pickup doesn't work.

### Expected Behavior Using Group Call Pickup and Directed Call Pickup

The following are expected behaviors when using group call pickup and directed call pickup:

- If you enter an invalid number:
  - Audio on computer mode—The conversation window appears and the user hears the annunciator immediately.
  - Desk phone mode—The conversation window, fast busy tone, or the annunciator occurs followed by the fast busy tone, *Pickup failed* error message.
- If you enter a valid number with no active call available to pick up:
  - Audio on computer mode—Tone in the headset, no conversation window appears, and *No call available for pickup* error message.
  - Desk phone mode—No conversation window and *No call available for pickup* error message
- If you enter a directory number of a phone in an associated group with no active call available to pick up:
  - Audio on computer mode—Tone in the headset, no conversation window appears, and *No call available for pickup* error message.
  - Desk phone mode—No conversation window and *No call available for pickup* error message
- If you enter a directory number of a phone not in an associated group, but on the same Unified CM node:
  - Audio on computer mode—The conversation window appears and fast busy tone.
  - Desk phone mode—The conversation window appears, fast busy tone, and *Pickup failed* error message.
- If you enter the first digits of a valid group:
  - Audio on computer mode—Tone in the headset, conversation window appears, and, after 15 seconds, the annunciator followed by the fast busy tone.
  - Desk phone mode—The conversation window appears, after 15 seconds, the annunciator, fast busy tone, and *Pickup failed* error message.

### Call Pickup Using a Desk Phone That Isn't in a Call Pickup Group

If a user attempts a call pickup from a desk phone that isn't in a call pickup group, the conversation window appears for a moment. Don't configure users to use the call pickup feature if they aren't members of a call pickup group.

### Original Recipient Information Not Available

When the Unified CM *Auto Call Pickup Enabled* setting is true, the recipient information isn't available in the client when the call is picked up in audio-on-computer mode. If the setting is false, the recipient information is available.

## Configure Call Pickup Group

Call pickup groups allow users to pick up incoming calls in their own group.

### Procedure

---

- Step 1** Open the **Cisco Unified Communication Manager** interface.
- Step 2** Select **Call Routing > Call Pickup Group**
- The **Find and List Call Pickup Groups** window opens.
- Step 3** Select **Add New**
- The **Call Pickup Group Configuration** window opens.
- Step 4** Enter call pickup group information:
- Specify a unique name for the call pickup group.
  - Specify a unique directory number for the call pickup group number.
  - Enter a description.
  - Select a partition.
- Step 5** (Optional) Configure the audio or visual notification in the **Call Pickup Group Notification Settings** section.
- Select the notification policy.
  - Specify the notification timer.
- For further information on call pickup group notification settings see the call pickup topics in the relevant Cisco Unified Communications Manager documentation.
- Step 6** Select **Save**.
- 

### What to do next

Assign a call pickup group to directory numbers.

## Assign Directory Number

Assign a call pickup group to a directory number. Only directory numbers that are assigned to a call pickup group can use call pickup, group call pickup, other group pickup, and directed call pickup.

### Before you begin

Before you assign a call pickup group to a directory number, you must create the call pickup group.

### Procedure

---

- Step 1** Open the **Cisco Unified Communications Manager Administration** interface.
- Step 2** Assign a call pickup group to a directory number using one of the following methods:
- Select **Call Routing > Directory Number**, find and select your directory number and in the Call Forward and Call Pickup Settings area select the call pickup group from the call pickup group drop down list.
  - Select **Device > Phone**, find and select your phone and in the **Association Information** list choose the directory number to which the call pickup group will be assigned.
- Step 3** To save the changes in the database, select **Save**.
- 

## Configure Other Call Pickup

Other Group Pickup allows users to pick up incoming calls in an associated group. Cisco Unified Communications Manager automatically searches for the incoming call in the associated groups to make the call connection when the user selects **Other Pickup**.

### Before you begin

Before you begin, configure call pickup groups.

### Procedure

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- Step 1** Open the **Cisco Unified Communication Manager Administration** interface.
- Step 2** Select **Call Routing > Call Pickup Group**  
The **Find and List Call Pickup Groups** window opens.
- Step 3** Select your call pickup group.  
The **Call Pickup Group Configuration** window opens.
- Step 4** In the **Associated Call Pickup Group Information** section, you can do the following:
- Find call pickup groups and add to current associated call pickup groups.
  - Reorder associated call pickup groups or remove call pickup groups.
- Step 5** Select **Save**.
-

## Configure Directed Call Pickup

Directed call pickup allows you to pick up an incoming call directly. The user enters the directory number in the client and selects **Pickup**. Cisco Unified Communications Manager uses the associated group mechanism to control if the user can pick up an incoming call using Directed Call Pickup.

To enable directed call pickup, the associated groups of the user must contain the pickup group to which the directory number belongs.

When the user invokes the feature and enters a directory number to pick up an incoming call, the user connects to the call that is incoming to the specified phone whether or not the call is the longest incoming call in the call pickup group to which the directory number belongs.

### Procedure

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- Step 1** Configure call pickup groups and add associated groups. The associated groups list can include up to 10 groups.
- For more information, see topics related to defining a pickup group for Other Group Pickup.
- Step 2** Enable the Auto Call Pickup Enabled service parameter to automatically answer calls for directed call pickups.
- For more information, see topics related to configuring Auto Call Pickup.
- 

## Auto Call Pickup

You can automate call pickup, group pickup, other group pickup, and directed call pickup by enabling the Auto Call Pickup Enabled service parameter. When this parameter is enabled, Cisco Unified Communications Manager automatically connects users to the incoming call in their own pickup group, in another pickup group, or a pickup group that is associated with their own group after users select the appropriate pickup on the phone. This action requires only one keystroke.

Auto call pickup connects the user to an incoming call in the group of the user. When the user selects **Pickup** on the client, Cisco Unified Communications Manager locates the incoming call in the group and completes the call connection. If automation is not enabled, the user must select **Pickup** and answer the call, to make the call connection.

Auto group call pickup connects the user to an incoming call in another pickup group. The user enters the group number of another pickup group and selects **Pickup** on the client. Upon receiving the pickup group number, Cisco Unified Communications Manager completes the call connection. If auto group call pickup is not enabled, dial the group number of another pickup group, select **Pickup** on the client, and answer the call to make the connection.

Auto other group pickup connects the user to an incoming call in a group that is associated with the group of the user. The user selects **Other Pickup** on the client. Cisco Unified Communications Manager automatically searches for the incoming call in the associated groups in the sequence that the administrator enters in the **Call Pickup Group Configuration** window and completes the call connection after the call is found. If automation is not enabled, the user must select **Other Pickup**, and answer the call to make the call connection.

Auto directed call pickup connects the user to an incoming call in a group that is associated with the group of the user. The user enters the directory number of the ringing phone and selects **Pickup** on the client. Upon

receiving the directory number, Cisco Unified Communications Manager completes the call connection. If auto directed call pickup is not enabled, the user must dial the directory number of the ringing phone, select **Pickup**, and answer the call that will now ring on the user phone to make the connection.

For more information about **Call Pickup**, see the *Feature Configuration Guide for Cisco Unified Communications Manager*.

## Configure Auto Call Pickup

### Procedure

- 
- Step 1** Open the **Cisco Unified CM Administration** interface.
- Step 2** Select **System > Service Parameters**
- Step 3** Select your server from the Server drop down list and then select the **Cisco Call Manager** service from the Service drop down list.
- Step 4** In the **Clusterwide Parameters (Feature - Call Pickup)** section, select one of the following for **Auto Call Pickup Enabled**:
- true—The auto call pickup feature is enabled.
  - false—The auto call pickup feature is not enabled. This is the default value.
- Step 5** Select **Save**.
- 

## Dial via Office

Clients			
Windows	Mac	iPhone and iPad	Android
—	—	Yes	Yes

Deployments			
On-Premises	Webex Messenger	Team Messaging Mode	Softphone for VDI
Yes	Yes	Yes	—



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**Important** The following features are not supported if the Dial via Office-Reverse (DvO-R) feature is enabled:

- URI dialing
- Secure Phone

User-controlled voicemail avoidance, which can be used in conjunction with the DvO feature, is available only on Cisco Unified Communications Manager release 9.0 and later. Timer-controlled voicemail avoidance is available on Cisco Unified Communications Manager release 6.0 and later.

You can make DvO-R calls over Expressway for Mobile and Remote Access when you are outside corporate network. DvO-R is supported on Cisco Expressway X8.7 and Cisco Unified Communications Manager 11.0(1a)SU1.

The DvO feature is not supported when users connect to the corporate network using Expressway for Mobile and Remote Access.

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The DvO feature allows users to initiate Cisco Jabber outgoing calls with their work number using the mobile voice network for the device.

Cisco Jabber supports DvO-R (DvO-Reverse) calls, which works as follows:

1. User initiates a DvO-R call.
2. The client notifies Cisco Unified Communications Manager to call the mobile phone number.
3. Cisco Unified Communications Manager calls and connects to the mobile phone number.
4. Cisco Unified Communications Manager calls and connects to the number that the user dialed.
5. Cisco Unified Communications Manager connects the two segments.
6. The user and the called party continue as with an ordinary call.

Incoming calls use either Mobile Connect or the Voice over IP, depending on which Calling Options the user sets on the client. Dial via Office does not require Mobile Connect to work. However, we recommend that you enable Mobile Connect to allow the native mobile number to ring when someone calls the work number. From the Cisco Unified Communications Manager user pages, users can enable and disable Mobile Connect, and adjust Mobile Connect behavior using settings (for example, the time of day routing and Delay Before Ringing Timer settings). For information about setting up Mobile Connect, see the *Set Up Mobile Connect* topic.






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**Note** The users do not receive incoming calls on Cisco Jabber in the following situations:

- If users select the **Mobile Voice Network** calling option on any network and the Single Number Reach (SNR) is not configured for their device, they will not receive incoming calls on Cisco Jabber.
  - If users select the **Mobile Voice Network** calling option on any network and the Single Number Reach (SNR) is configured with the **Ring Schedule**, they will not receive incoming calls on Cisco Jabber beyond the time set in the **Ring Schedule**.
-

The following table describes the calling methods used for incoming and outgoing calls. The calling method (VoIP, Mobile Connect, DvO-R, or native cellular call) varies depending on the selected Calling Options and the network connection.

**Table 1: Calling Methods used with Calling Options over Different Network Connections**

Connection	Calling Options					
	Voice over IP		Mobile Voice Network		Autoselect	
 Corporate Wi-Fi	Outgoing: VoIP	Incoming: VoIP	Outgoing: DvO-R	Incoming: Mobile Connect	Outgoing: VoIP	Incoming: VoIP
 Noncorporate Wi-Fi					Outgoing: DvO-R	Incoming: Mobile Connect
 Mobile Network (3G, 4G)					Outgoing: DvO-R	Incoming: Mobile Connect
Phone Services are not registered	Outgoing Native Cellular Call					
	Incoming Mobile Connect					

To set up Dial via Office-Reverse (DvO-R), you must do the following:

1. Set up the Cisco Unified Communications Manager to support DvO-R. See the *Set Up Cisco Unified Communications Manager to Support DvO* topic for more information.
2. Enable DvO on each Cisco Dual Mode for iPhone or Android device. See the *Set Up Dial via Office for Each Device* topic for more information.

## Set Up Cisco Unified Communications Manager to Support Dial via Office

To set up Cisco Unified Communications Manager to support Dial via Office-Reverse (DvO-R), perform the following procedures:

1. Complete one or both of the following procedures.
  - *Set Up Enterprise Feature Access Number*
  - *Set Up Mobility Profile*
2. Complete the *Verify Device COP File Version* procedure.
3. If necessary, create application dial rules to allow the system to route calls to the Mobile Identity phone number to the outbound gateway. Ensure that the format of the Mobile Identity phone number matches the application dial rules.

## Set Up Enterprise Feature Access Number

Use this procedure to set up an Enterprise Feature Access Number for all Cisco Jabber calls that are made using Dial via Office-Reverse.

The Enterprise Feature Access Number is the number that Cisco Unified Communications Manager uses to call the mobile phone and the dialed number unless a different number is set up in Mobility Profile for this purpose.

### Before you begin

- Reserve a Direct Inward Dial (DID) number to use as the Enterprise Feature Access Number (EFAN). This procedure is optional if you already set up a mobility profile.
- Determine the required format for this number. The exact value you choose depends on the phone number that the gateway passes (for example, 7 digits or 10 digits). The Enterprise Feature Access Number must be a routable number.

### Procedure

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- Step 1** Open the **Cisco Unified CM Administration** interface.
- Step 2** Select **Call Routing > Mobility > Enterprise Feature Access Number Configuration**.
- Step 3** Select **Add New**.
- Step 4** In the **Number** field, enter the Enterprise Feature Access number.  
Enter a DID number that is unique in the system.  
To support dialing internationally, you can prepend this number with \+.
- Step 5** From the **Route Partition** drop-down list, choose the partition of the DID that is required for enterprise feature access.  
  
This partition is set under **System > Service Parameters**, in the **Clusterwide Parameters (System - Mobility)** section, in the **Inbound Calling Search Space for Remote Destination** setting. This setting points either to the Inbound Calling Search Space of the Gateway or Trunk, or to the Calling Search Space assigned on the **Phone Configuration** window for the device.  
  
If the user sets up the DvO Callback Number with an alternate number, ensure that you set up the trunk Calling Search Space (CSS) to route to destination of the alternate phone number.
- Step 6** In the **Description** field, enter a description of the Mobility Enterprise Feature Access number.
- Step 7** (Optional) Check the **Default Enterprise Feature Access Number** check box if you want to make this Enterprise Feature Access number the default for this system.
- Step 8** Select **Save**.
- 

## Set Up Mobility Profile

Use this procedure to set up a mobility profile for Cisco Jabber devices. This procedure is optional if you already set up an Enterprise Feature Access Number.



Mobility profiles allow you to set up the Dial via Office-Reverse settings for a mobile client. After you set up a mobility profile, you can assign it to a user or to a group of users, such as the users in a region or location.

### Procedure

- 
- Step 1** Open the **Cisco Unified CM Administration** interface.
  - Step 2** Select **Call Routing > Mobility > Mobility Profile**.
  - Step 3** In the **Mobility Profile Information** section, in the **Name** field, enter a descriptive name for the mobility profile.
  - Step 4** In the **Dial via Office-Reverse Callback** section, in the **Callback Caller ID** field, enter the caller ID for the callback call that the client receives from Cisco Unified Communications Manager.
  - Step 5** Click **Save**.
- 

## Verify Device COP File Version

Use the following procedure to verify that you are using the correct device COP file for this release of Cisco Jabber.

### Procedure

- 
- Step 1** Open the **Cisco Unified CM Administration** interface.
  - Step 2** Select **Device > Phone**.
  - Step 3** Click **Add New**.
  - Step 4** From the **Phone Type** drop-down list, choose **Cisco Dual Mode for iPhone** or **Cisco Dual Mode for Android**.
  - Step 5** Click **Next**.
  - Step 6** Scroll down to the Product Specific Configuration Layout section, and verify that you can see the **Video Capabilities** drop-down list.

If you can see the **Video Capabilities** drop-down list, the COP file is already installed on your system.

If you cannot see the **Video Capabilities** drop-down list, locate and download the correct COP file.

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## Set Up Dial via Office for Each Device

Use the following procedures to set up Dial via Office - Reverse for each TCT or BOT device.

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	Add a Mobility Identity for each user.	
<b>Step 2</b>	Enable Dial via Office on each device.	

	Command or Action	Purpose
<b>Step 3</b>	If you enabled Mobile Connect, verify that Mobile Connect works. Dial the desk phone extension and check that the phone number that is specified in the associated Mobile Identity rings.	

## Add Mobility Identity

Use this procedure to add a mobility identity to specify the mobile phone number of the mobile device as the destination number. This destination number is used by features such as Dial via Office or mobile connect.

You can specify only one number when you add a mobility identity. If you want to specify an alternate number such as a second mobile phone number for a mobile device, you can set up a remote destination. The mobility identity configuration characteristics are identical to those of the remote destination configuration.

### Procedure

**Step 1** Open the **Cisco Unified CM Administration** interface.

**Step 2** Navigate to the device that you want to configure as follows:

- a) Select **Device > Phone**.
- b) Search for the device that you want to configure.
- c) Select the device name to open the **Phone Configuration** window.

**Step 3** In the **Associated Mobility Identity** section, select **Add a New Mobility Identity**.

**Step 4** Enter the mobile phone number as the destination number.

You must be able to rout this number to an outbound gateway. Generally, the number is the full E.164 number.

**Note** If you enable the Dial via Office — Reverse feature for a user, you must enter a destination number for the user's mobility identity.

If you enable Dial via Office — Reverse and leave the destination number empty in the mobility identity:

- The phone service cannot connect if the user selects the **Autoselect** calling option while using a mobile data network and VPN.
- The phone service cannot connect if the user selects the **Mobile Voice Network** calling option on any type of network.
- The logs do not indicate why the phone service cannot connect.

**Step 5** Enter the initial values for call timers.

These values ensure that calls are not routed to the mobile service provider voicemail before they ring in the client on the mobile device. You can adjust these values to work with the end user's mobile network. For more information, see the online help in Cisco Unified Communications Manager.

The following is an example of mobility Identity timers' information in Cisco Unified Communications Manager 9.x.

Setting	Suggested Initial Value
Answer Too Soon Timer	3000
Answer Too Late Timer	20000
Delay Before Ringing Timer	0 <b>Note</b> This setting does not apply to DvO-R calls.

The following is an example of mobility Identity timers' information in Cisco Unified Communications Manager 10.x.

Setting	Suggested Initial Value
Wait * before ringing this phone when my business line is dialed.*	0.0 seconds
Prevent this call from going straight to this phone's voicemail by using a time delay of * to detect when calls go straight to voicemail.*	3.0 seconds
Stop ringing this phone after * to avoid connecting to this phone's voicemail.*	20.0 seconds

**Step 6** Do one of the following:

- Cisco Unified Communications Manager release 9 or earlier — Check the **Enable Mobile Connect** check box.
- Cisco Unified Communications Manager release 10 — Check the **Enable Single Number Reach** check box.

**Step 7** If you are setting up the Dial via Office feature, in the Mobility Profile drop-down list, select one of the following options.

Option	Description
Leave blank	Choose this option if you want users to use the Enterprise Feature Access Number (EFAN).
Mobility Profile	Choose the mobility profile that you just created if you want users to use a mobility profile instead of an EFAN.

**Step 8** Set up the schedule for routing calls to the mobile number.

**Step 9** Select **Save**.

## Enable Dial via Office on Each Device

Use this procedure to enable Dial via Office on each device.

## Procedure

- 
- Step 1** Open the **Cisco Unified CM Administration** interface.
- Step 2** Navigate to the device that you want to configure as follows:
- Select **Device > Phone**.
  - Search for the device that you want to configure.
  - Select the device name to open the **Phone Configuration** window.
- Step 3** In the **Device Information** section, check the **Enable Cisco Unified Mobile Communicator** check box.
- Step 4** In the **Protocol Specific Information** section, in the **Rerouting Calling Search Space** drop-down list, select a Calling Search Space (CSS) that can route the call to the DvO callback number.
- Step 5** In the **Product Specific Configuration Layout** section, set the **Dial via Office** drop-down list to **Enabled**.
- Step 6** Select **Save**.
- Step 7** Select **Apply Config**.
- Step 8** Instruct the user to sign out of the client and then to sign back in again to access the feature.

**Note** DVO enabled devices may encounter issues registering with Cisco Unified Communications Manager. Resetting the device from the Cisco Unified Communications Manager administrative interface fixes this issue.

---

## What to do next

Test this feature.

# Far End Camera Control (FECC)

Clients			
Windows	Mac	iPhone and iPad	Android
Yes	Yes	Yes	Yes

Deployments			
On-Premises	Webex Messenger	Team Messaging Mode	Softphone for VDI
Yes	Yes	Yes	—

In calls that support far-end camera control (FECC), you can adjust the far-end camera to give you a better view during video calls. FECC is available to users if the endpoint that they are calling supports it.

You can configure whether users can access FECC-enabled endpoints. Disabling the configuration parameter means that users are not provided with the ability to control far-end camera endpoints, even if the endpoint is capable. From a user experience, with FECC disabled, it works the same as dialing in to an endpoint that is not FECC enabled.

To disable FECC, set the EnableFecc parameter to false. For more information about this parameter, see the *Parameters Reference Guide*.

### Limitations

FECC is only supported in point-to-point calls, but not in group calls or conferences where multiple video connections are connecting to the same bridge.

FECC is only supported in Softphone mode.

## Flexible DSCP Values

Clients			
Windows	Mac	iPhone and iPad	Android
—	Yes	Yes	Yes

Deployments			
On-Premises	Webex Messenger	Team Messaging Mode	Softphone for VDI
Yes	Yes	Yes	Yes

Flexible Differentiated Services Code Point (DSCP) allows you to specify different DSCP values to separate the audio and video streams on the network.

The EnableDSCPpacketMarking parameter is used to enable or disable DSCP packet marking in the client.

You can configure the DSCP values for audio calls, video calls, audio portion for video calls, and audio portion for telepresence calls separately. For better bandwidth management and to protect audio stream degradation, separate the audio stream from the higher-bandwidth video stream. This can help when the network is congested or the call quality is impacted.

DSCP values are configured on Cisco Unified Communications Manager. For more information, see the *Configure Flexible DSCP Marking and Video Promotion Policy* section of the *System Configuration Guide for Cisco Unified Communications Manager*.

## Hunt Group

Clients			
Windows	Mac	iPhone and iPad	Android
Yes	Yes	Yes	Yes

Deployments			
On-Premises	Webex Messenger	Team Messaging Mode	Softphone for VDI
Yes	Yes	Yes	Yes

Applies to all clients

A Hunt Group is a group of lines that are organized hierarchically, so that if the first number in the hunt group list is busy, the system dials the second number. If the second number is busy, the system dials the next number, and so on. Every hunt group has a pilot number that is also called as hunt pilot. A hunt pilot contains a hunt pilot number and an associated hunt list. Hunt pilots provide flexibility in network design. They work with route filters and hunt lists to direct calls to specific devices and to include, exclude, or modify specific digit patterns.

A hunt pilot number is the number that a user dials. A hunt list contains a set of line groups in a specific order. A line group comprises a group of directory numbers in a specific order. The order controls the progress of the search for available directory numbers for incoming calls. A single-line group can appear in multiple hunt lists.

Unified Communications Manager (Unified CM) identifies a call that is to be routed through a defined hunt list, Unified CM finds the first available device on the basis of the order of the line groups that a hunt list defines.

You can let a user sign in and out of hunt groups by configuring `EnableHuntGroup` parameter. You can control whether users can decline calls from hunt groups with the `PreventDeclineOnHuntCall` parameter. For more information, see the *Parameters Reference Guide for Cisco Jabber*.

Unified CM 9.x and later allows configuring of automatic sign out of a hunt member when there is no answer. Once the user is signed out, the system displays a sign out notification whether the user is auto-signed out, manually signed out, or signed out by the Unified CM administrator.

### Limitation

Desktop clients must use audio on computer mode before users can sign in to or out of hunt groups.

## Line Group

A line group allows you to designate the order in which directory numbers are chosen. Cisco Unified Communications Manager distributes a call to an idle or available member of a line group based on the call distribution algorithm and on the Ring No Answer (RNA) Reversion timeout setting.

Users cannot pick up calls to a DN that belongs to a line group by using the directed call pickup feature.

## Configure Line Group

### Before you begin

Configure directory numbers.

### Procedure

- 
- Step 1** Open the **Cisco Unified CM Administration** interface.
  - Step 2** Select **Call Routing > Route/Hunt > Line Group**.  
The **Find and List Line Groups** window opens.
  - Step 3** Select **Add New**.  
The **Line Group Configuration** window opens.

- Step 4** Enter settings in the **Line Group Information** section as follows:
- Specify a unique name in the **Line Group Name** field.
  - Specify number of seconds for **RNA Reversion Timeout**.
  - Select a **Distribution Algorithm** to apply to the line group.
- Step 5** Enter settings in the **Hunt Options** section as follows:
- Select a value for **No Answer** from the drop-down list.
  - Select **Automatically Logout Hunt Member on No Answer** to configure auto logout of the hunt list.
  - Select a value for **Busy** from the drop-down list.
  - Select a value for **Not Available** from the drop-down list.
- Step 6** In the **Line Group Member Information** section, you can do the following:
- Find directory numbers or route partitions to add to the line group.
  - Reorder the directory numbers or route partitions in the line group.
  - Remove directory numbers or route partitions from the line group.
- Step 7** Select **Save**.

---

**What to do next**

Configure a hunt list and add the line group to the hunt list.

## Hunt List

A hunt list contains a set of line groups in a specific order. A hunt list associates with one or more hunt pilots and determines the order in which those line groups are accessed. The order controls the progress of the search for available directory numbers for incoming calls.

A hunt list comprises a collection of directory numbers as defined by line groups. After Cisco Unified Communications Manager determines a call that is to be routed through a defined hunt list, Cisco Unified Communications Manager finds the first available device on the basis of the order of the line group(s) that a hunt list defines.

A hunt list can contain only line groups. Each hunt list should have at least one line group. Each line group includes at least one directory number. A single line group can appear in multiple hunt lists.



---

**Note** The group call pickup feature and directed call pickup feature do not work with hunt lists.

---

## Configure Hunt List

### Procedure

---

- Step 1** Open the **Cisco Unified CM Administration** interface.
- Step 2** Select **Call Routing > Route/Hunt > Hunt List**.  
The **Find and Hunt List Groups** window opens.
- Step 3** Select **Add New**.  
The **Hunt List Configuration** window opens.
- Step 4** Enter settings in the **Hunt List Information** section as follows:
- Specify a unique name in the **Name** field.
  - Enter a description for the Hunt List.
  - Select a **Cisco Unified Communications Manager Group** from the drop-down list.
  - The system selects **Enable this Hunt List** by default for a new hunt list when the hunt list is saved.
  - If this hunt list is to be used for voice mail, select **For Voice Mail Usage**.
- Step 5** Select **Save** to add the hunt list.
- 

### What to do next

Add line groups to the hunt list.

## Add Line Group to Hunt List

### Before you begin

You must configure line groups and configure a hunt list.

### Procedure

---

- Step 1** Open the **Cisco Unified CM Administration** interface.
- Step 2** Select **Call Routing > Route/Hunt > Hunt List**.  
The **Find and Hunt List Groups** window opens.
- Step 3** Locate the hunt list to which you want to add a line group.
- Step 4** To add a line group, select **Add Line Group**.  
The **Hunt List Detail Configuration** window displays.
- Step 5** Select a line group from the **Line Group** drop-down list.
- Step 6** To add the line group, select **Save**.



- Step 7** To add additional line groups, repeat Step 4 to Step 6.
- Step 8** Select **Save**.
- Step 9** To reset the hunt list, select **Reset**. When the dialog box appears, select **Reset**.
- 

## Hunt Pilot

A hunt pilot comprises a string of digits (an address) and a set of associated digit manipulations that route calls to a hunt list. Hunt pilots provide flexibility in network design. They work in conjunction with route filters and hunt lists to direct calls to specific devices and to include, exclude, or modify specific digit patterns. For more information about hunt pilots, see the *System Configuration Guide for Cisco Unified Communications Manager*.

For more detailed information on the configuration options for hunt pilots, see the relevant *Cisco Unified Communications Manager documentation*.

## Configure Hunt Pilot

### Procedure

---

- Step 1** Open the **Cisco Unified CM Administration** interface.
- Step 2** Select **Call Routing > Route/Hunt > Hunt Pilot**.  
The **Find and List Hunt Pilots** window opens.
- Step 3** Select **Add New**.  
The **Hunt Pilot Configuration** window opens.
- Step 4** Enter the hunt pilot, including numbers and wildcards.
- Step 5** Select a hunt list from the **Hunt List** drop-down list.
- Step 6** Enter any additional configurations in the **Hunt Pilot Configuration** window. For more information on hunt pilot configuration settings, see the relevant Cisco Unified Communications Manager documentation.
- Step 7** Select **Save**.
- 

## Jabber to Jabber Call

Clients			
Windows	Mac	iPhone and iPad	Android
Yes	Yes	Yes	Yes

Deployments			
On-Premises	Webex Messenger	Team Messaging Mode	Softphone for VDI
Yes	Yes	Yes	—

Jabber to Jabber voice and video calling provides basic calling capabilities between two Cisco Jabber clients without using Cisco Unified Communications Manager. If Cisco Jabber users are not registered with Cisco Unified Communications Manager, they can still make Jabber to Jabber calls from Cisco Jabber.



#### Note

- Jabber to Jabber calling is only supported for users who authenticate to the Cisco Webex Messenger service.
- For Cisco Jabber for Windows clients, we recommend running Internet Explorer 10 or greater while using the Jabber to Jabber calling feature. Using the feature with previous versions of Internet Explorer or with Internet Explorer in Compatibility Mode can cause issues. These issues are with Cisco Jabber client login (non-SSO setup) or Jabber to Jabber calling capability (SSO setup).

### Jabber to Jabber Call Experience

A Jabber to Jabber call does not support all the features of a Cisco Unified Communication Manager call. Users can make a Jabber to Jabber call with only one contact at a time. In a Jabber to Jabber call, users can experience any of the following scenarios:

- Cisco Jabber for mobile clients does not support HD video in portrait mode. To achieve HD video, you need to rotate the phone from portrait to landscape mode during the call.
- If two users start a Jabber to Jabber call to each other at the same time, the call is automatically connected. In such case, users do not receive any incoming call notification.
- When users are on a Jabber to Jabber call and start another call, the ongoing call ends immediately, even if the person they called does not answer.
- When on a Jabber to Jabber call and they receive an incoming Jabber to Jabber call, the **End Call And Answer** option is displayed. When they select this button, the ongoing Jabber to Jabber call ends and the incoming call is answered.
- For Jabber to Jabber calls on Cisco Jabber for mobile clients:
  - Cisco Jabber for mobile clients does not support HD video in portrait mode. To achieve HD video, you need to rotate the phone from portrait to landscape mode during the call.
  - When users are on a Jabber to Jabber call and they make a phone call, the ongoing Jabber to Jabber call ends immediately, even if the remote party does not answer.
  - When users are on a mobile call, they cannot answer any Jabber to Jabber call. The incoming Jabber to Jabber call is listed as a missed call.
  - When users are on a Jabber to Jabber call and they receive an incoming mobile call:
    - On an iPhone, the Jabber to Jabber call ends immediately, even if they do not answer the call.
    - On an Android phone, the Jabber to Jabber call ends immediately when they answer the incoming mobile call.

### Supported In-Call Features

The following features are supported during a Jabber to Jabber call:

- End a Jabber to Jabber call
- Mute or unmute the audio
- Start or stop the video
- Volume control
- Open or close or move the self-video
- Switch to front or back camera. This feature is only supported on the Cisco Jabber mobile clients.

### Jabber to Jabber Call Cloud Deployment

Cloud deployment for Jabber to Jabber call uses the SDP/HTTPS setup. For cloud deployment, ensure the following:

- Install the following root certificate to use the Jabber to Jabber call feature: `GoDaddy Class 2 Certification Authority Root Certificate`. To resolve any warnings about this certificate name, install the required GoDaddy certificate.
- Include the following servers in the proxy server bypass list:
  - `https://locus-a.wbx2.com/locus/api/v1`
  - `https://conv-a.wbx2.com/conversation/api/v1`

For information on proxy server lists, see the *Configure Proxy Settings* in the Cisco Jabber Deployment Guides.

- Enable the range of media ports and protocols for RTP/SRTP over UDP: 33434-33598 and 8000-8100. For Jabber to Jabber call setup over HTTPS, enable port 443.
- Before you enable the Jabber to Jabber calling feature, complete the following tasks:
  - Contact the Cisco Customer Support team or your Cisco Customer Success Manager to request that your organization is added to the Cisco Common Identity server. This process to add users to the Common Identity server takes some time to complete and is necessary to access Jabber to Jabber calling capabilities.
  - For Single Sign On (SSO) users, you must set up SSO for Common Identity. For more information about configuring SSO, see the Cisco Webex Messenger documentation at this link: <https://www.cisco.com/c/en/us/support/unified-communications/webex-messenger/products-installation-guides-list.html>.

For cloud deployments, Jabber to Jabber calling is configured on the Cisco Webex Messenger Administration tool with one of the following methods:

- Using the *P2P settings* in the *Configuration Tab* section. For more information, see the *Cisco Webex Messenger Administrator's Guide*.
- Using the **Internal VoIP** and **External VoIP** settings in the policy editor for Cisco Webex Messenger Administration tool. You can control the video services for Jabber to Jabber calls using the **Internal Video** and **External Video** policy actions. For more information, see the *Policy Editor* section of the

*Cisco Webex Messenger Administration Guide.* Jabber to Jabber calling can be enabled for groups of users or all users.

## Jabber to Jabber Hybrid Mode

### Jabber to Jabber Call Experience in Hybrid Mode

In addition to the limitations for Jabber to Jabber, the following are the scenarios that occur when using Jabber to Jabber calls and Cisco Unified Communications Manager calls:

- When users are on a Jabber to Jabber call and make a Cisco Unified Communications Manager call, the ongoing Jabber to Jabber call ends immediately, even if the remote party does not answer.
- When users are on a Jabber to Jabber call and resume a Cisco Unified Communications Manager call from on hold, the Jabber to Jabber call ends immediately.
- When users are on a Jabber to Jabber call and receive an incoming Cisco Unified Communications Manager call, a notification with an **End Call And Answer** button displays. If your user selects this button the ongoing Jabber to Jabber call ends and the incoming call is answered.
- When users receive a Cisco Unified Communications Manager call, they can place the ongoing Cisco Unified Communications Manager call on hold to answer the new call.
- When users are on a Cisco Unified Communications Manager call and they choose to make a Jabber to Jabber call, the Cisco Unified Communications Manager call is put on hold immediately, even if the participant in the Jabber to Jabber call does not answer the call.
- When users are on a Cisco Unified Communications Manager call and they answer an incoming Jabber to Jabber call, the Cisco Unified Communications Manager call is put on hold immediately.
- If your user's line is configured on Cisco Unified Communications Manager to auto-answer calls and they receive an incoming Cisco Unified Communications Manager call when they are on a Jabber to Jabber call, the Jabber to Jabber call ends immediately without notification and the Cisco Unified Communications Manager call is answered.

## Jabber to Jabber Bandwidth

Specifies the maximum bandwidth (in kilobits per second) to be used for Jabber to Jabber calls. The video quality (resolution) of the call is lowered so that it meets the bandwidth limit. This feature is configured using the `J2JMaxBandwidthKbps` parameter.

For more information on parameters, see the *Parameter Reference Guide* for your release.

## Let Users Without Voicemail Ignore Calls

Clients			
Windows	Mac	iPhone and iPad	Android
Yes	Yes	Yes	Yes

Deployments			
On-Premises	Webex Messenger	Team Messaging Mode	Softphone for VDI
Yes	Yes	Yes	Yes

You can choose a NoVoicemail profile for users who don't have voicemail configured. Jabber displays an **Ignore call** option for these users.

## Configure a Device with No Voicemail

You can configure a device with no voicemail and users can ignore an incoming call in the Jabber client.

### Procedure

- 
- Step 1** From **Cisco Unified CM IM and Presence Administration**, go to **Device > Phone**.
  - Step 2** Find and select the device.
  - Step 3** In the **Association Information**, choose the directory number.
  - Step 4** In the **Directory Number Settings**, choose **NoVoicemail** for **Voice Mail Profile**.
  - Step 5** Click **Save** and then select **Apply Config**.
- 

## Move to Mobile

Clients			
Windows	Mac	iPhone and iPad	Android
—	—	Yes	Yes

Deployments			
On-Premises	Webex Messenger	Team Messaging Mode	Softphone for VDI
Yes	Yes	Yes	—

Users can transfer an active VoIP call from Cisco Jabber to their mobile phone number on the mobile network. This feature is useful when a user on a call leaves the Wi-Fi network (for example, leaving the building to walk out to the car), or if there are voice quality issues over the Wi-Fi network.



**Note** The Move to Mobile feature requires a mobile telephone network connection with a phone number. Users must have a TCT or BOT device.

There are two ways to enable this feature. You can also disable it.

Implementation Method	Description	Instructions
Handoff DN	<p>The mobile device calls Cisco Unified Communications Manager using the mobile network.</p> <p>This method requires a Direct Inward Dial (DID) number.</p> <p>The service provider must deliver the DID digits exactly as configured. Alternately, for Cisco IOS gateways with H.323 or SIP communication to Cisco Unified Communications Manager, you can use Cisco IOS to manipulate the inbound called-party number at the gateway, presenting the digits to Cisco Unified Communications Manager exactly as configured on the handoff DN.</p> <p>This method does not work for iPod Touch devices.</p>	See the <i>Enable Handoff from VoIP to Mobile Network</i> topic.
Mobility Softkey	Cisco Unified Communications Manager calls the phone number of the PSTN mobile service provider for the mobile device.	See the <i>Enable Transfer from VoIP to Mobile Network</i> topic.
None of the above	Disable this feature if you do not want to make it available to users.	<p>Select <b>Disabled</b> for the <b>Transfer to Mobile Network</b> option in the <b>Product Specific Configuration Layout</b> section of the TCT device page.</p> <p>Select <b>Disabled</b> for the <b>Transfer to Mobile Network</b> option in the <b>Product Specific Configuration Layout</b> section of the BOT device page.</p>

## Enable Handoff from VoIP to Mobile Network

Set up a directory number that Cisco Unified Communications Manager can use to hand off active calls from VoIP to the mobile network. Match the user's caller ID with the Mobility Identity to ensure that Cisco Unified Communications Manager can recognize the user. Set up the TCT device and mobile device to support handoff from VoIP to the mobile network.

Set up a directory number that Cisco Unified Communications Manager can use to hand off active calls from VoIP to the mobile network. Match the user's caller ID with the Mobility Identity to ensure that Cisco Unified Communications Manager can recognize the user. Set up the BOT device and mobile device to support handoff from VoIP to the mobile network.

## Set Up Handoff DN

### Before you begin

Determine the required values. The values that you choose depend on the phone number that the gateway passes (for example, seven digits or ten digits).

### Procedure

- 
- Step 1** Open the **Cisco Unified CM Administration** interface.
- Step 2** Select **Call Routing > Mobility > Handoff Configuration**.
- Step 3** Enter the Handoff Number for the Direct Inward Dial (DID) number that the device uses to hand off a VoIP call to the mobile network.
- The service provider must deliver the DID digits exactly as configured. Alternately, for Cisco IOS gateways with H.323 or SIP communication to Cisco Unified Communications Manager, you can use Cisco IOS to manipulate the inbound called-party number at the gateway, presenting the digits to Cisco Unified Communications Manager exactly as configured on the handoff number.
- Note** You cannot use translation patterns or other similar manipulations within Cisco Unified Communications Manager to match the inbound DID digits to the configured Handoff DN.
- Step 4** Select the **Route Partition** for the handoff DID.
- This partition should be present in the Remote Destination inbound Calling Search Space (CSS), which points to either the Inbound CSS of the Gateway or Trunk, or the Remote Destination CSS.
- This feature does not use the remaining options on this page.
- Step 5** Select **Save**.
- 

## Match Caller ID with Mobility Identity

To ensure that only authorized phones can initiate outbound calls, calls must originate from a phone that is set up in the system. To do this, the system attempts to match the caller ID of the requesting phone number with an existing Mobility Identity. By default, when a device initiates the Handoff feature, the caller ID that is passed from the gateway to Cisco Unified Communications Manager must exactly match the Mobility Identity number that you entered for that device.

However, your system may be set up such that these numbers do not match exactly. For example, Mobility Identity numbers may include a country code while caller ID does not. If so, you must set up the system to recognize a partial match.

Be sure to account for situations in which the same phone number may exist in different area codes or in different countries. Also, be aware that service providers can identify calls with a variable number of digits, which may affect partial matching. For example, local calls may be identified using seven digits (such as 555 0123) while out-of-area calls may be identified using ten digits (such as 408 555 0199).

### Before you begin

Set up the Mobility Identity. See the *Add Mobility Identity* topic.

To determine whether you need to complete this procedure, perform the following steps. Dial in to the system from the mobile device and compare the caller ID value with the Destination Number in the Mobility Identity. If the numbers do not match, you must perform this procedure. Repeat this procedure for devices that are issued in all expected locales and area codes.

### Procedure

---

- Step 1** Open the **Cisco Unified CM Administration** interface.
  - Step 2** Select **System > Service Parameters**.
  - Step 3** Select the active server.
  - Step 4** Select the **Cisco CallManager (Active)** service.
  - Step 5** Scroll down to the **Clusterwide Parameters (System - Mobility)** section.
  - Step 6** Select **Matching Caller ID with Remote Destination** and read essential information about this value.
  - Step 7** Select **Partial Match for Matching Caller ID with Remote Destination**.
  - Step 8** Select **Number of Digits for Caller ID Partial Match** and read the essential requirements for this value.
  - Step 9** Enter the required number of digits to ensure partial matches.
  - Step 10** Select **Save**.
- 

## Set Up User and Device Settings for Handoff

### Before you begin

- Set up the user device on the Cisco Unified Communications Manager.
- Set up the user with a Mobility Identity.

### Procedure

---

- Step 1** In the **Cisco Unified CM Administration** interface, go to the TCT Device page, and select **Use Handoff DN Feature** for the **Transfer to Mobile Network** option.  
Do not assign this method for iPod Touch devices. Use the Mobility Softkey method instead.
  - Step 2** In the **Cisco Unified CM Administration** interface, go to the BOT Device page, and select **Use Handoff DN Feature** for the **Transfer to Mobile Network** option.
  - Step 3** On the iOS device, tap **Settings > Phone > Show My Caller ID** to verify that Caller ID is on.
  - Step 4** On some Android device and operating system combinations, you can verify that the Caller ID is on. On the Android device, open the Phone application and tap **Menu > Call Settings > Additional settings > Caller ID > Show Number**.
  - Step 5** Test this feature.
-



# Enable Transfer from VoIP to Mobile Network

## Procedure

---

- Step 1** Open the **Cisco Unified CM Administration** interface.
- Step 2** For system-level settings, check that the Mobility softkey appears when the phone is in the connected and on-hook call states.
- Select **Device > Device Settings > Softkey Template**.
  - Select the same softkey template that you selected when you configured the device for Mobile Connect.
  - In the **Related Links** drop-down list at the upper right, select **Configure Softkey Layout** and select **Go**.
  - In the call state drop-down list, select the On Hook state and verify that the Mobility key is in the list of selected softkeys.
  - In the call state drop-down list, select the Connected state and verify that the Mobility key is in the list of selected softkeys.
- Step 3** Navigate to the device that you want to configure as follows:
- Select **Device > Phone**.
  - Search for the device that you want to configure.
  - Select the device name to open the **Phone Configuration** window.
- Step 4** For the per-user and per-device settings in Cisco Unified Communications Manager, set the specific device to use the Mobility softkey when the device transfers calls to the mobile voice network. Ensure that you have set up both Mobility Identity and Mobile Connect for the mobile device. After the transfer feature is working, users can enable and disable Mobile Connect at their convenience without affecting the feature.
- If the device is an iPod Touch, you can configure a Mobility Identity using an alternate phone number such as the mobile phone of the user.
- Select the **Owner User ID** on the device page.
  - Select the **Mobility User ID**. The value usually matches that of the Owner User ID.
  - In the Product Specific Configuration Layout section, for the Transfer to Mobile Network option, select **Use Mobility Softkey** or **Use HandoffDN Feature**.
- Step 5** In the User Locale field, choose **English, United States**.
- Step 6** Select **Save**.
- Step 7** Select **Apply Config**.
- Step 8** Instruct the user to sign out of the client and then to sign back in again to access the feature.
- 

## What to do next

Test your settings by transferring an active call from VoIP to the mobile network.

# Multiline

Clients			
Windows	Mac	iPhone and iPad	Android
Yes	Yes	—	—

Deployments			
On-Premises	Webex Messenger	Team Messaging Mode	Softphone for VDI
Yes	Yes	Yes	Yes

You can configure multiple phone lines for your users to perform daily Cisco Jabber tasks. You can add up to 8 phone lines for each user. You can configure multiline for your users on Cisco Services Framework (CSF) device.

Multiline is supported on Cisco Unified Communications Manager release 11.5 SU3 and later. However, if you are using Cisco Unified Communications Manager release 11.5 SU3 and Cisco Unified Communications Manager release 12.0, you must manually install the [Cisco Options Package \(COP\)](#) file on all cluster nodes and restart Cisco Unified Communications Manager to enable multiline.

After you have installed and configured Multiline, your users can:

- Select a preferred line for making calls.
- View missed calls and voicemails.
- Use call forwarding, transfers, and conference calls on all lines.
- Assign custom ringtones to each line.

Multiline supports the following features on all lines:

- CTI control for the desk phone
- Far End Camera Control (FECC) and Binary Floor Control Protocol (BFCP)
- Hunt groups
- Call recording and silent monitoring
- Shared line, dial rules, and directory lookup
- Accessory manager

If Multiline is enabled, these features are only available on the primary line:

- Call pickup
- Extend & Connect

## Configure Multiline

### Before you begin

Create and add user profiles in Cisco Unified Communications Manager.



- Important** For Cisco Jabber Softphone for VDI, merge call functionality requires the following configuration:
- Set **Join And Direct Transfer Policy to Same line, across line enable**.
  - Check the **Override Enterprise Settings** check box.

### Procedure

- Step 1** From **Cisco Unified CM Administration**, go to **Device > Phone**, and find and select the device.
- Step 2** For each line you want to configure:
- Click **Add a new DN**, enter a **Directory Number**.
  - Add any additional configurations and click **Save**.

## Enable Multiline MRA Access

Multiline is supported when using Cisco Jabber for Desktop in Mobile and Remote Access (MRA) mode. This function can be enabled in the Cisco TelePresence Video Communication Server (VCS-C).

### Procedure

- Step 1** Go to VCS-C.
- Step 2** Select **VSC-C configuration > Unified Communication > Configuration > SIP Path headers** and set it to **On**.

## Personal Rooms

Clients			
Windows	Mac	iPhone and iPad	Android
Yes	Yes	Yes	Yes

Deployments			
On-Premises	Webex Messenger	Team Messaging Mode	Softphone for VDI
Yes	Yes	Yes	Yes

A personal room is a virtual conference room that is always available and can be used to meet with people. Cisco Jabber uses the personal room feature of Cisco Webex Meetings to allow users to easily meet with their contacts using the **Start meeting** option in the client.

### Procedure

- 
- Step 1** Personal Rooms are enabled by default for users on Cisco Webex Meetings. For more information see the Cisco Webex Meetings documentation available here: <https://www.cisco.com/c/en/us/support/conferencing/webex-meeting-center/products-installation-and-configuration-guides-list.html>
- Step 2** Users can configure their personal rooms for all instant meetings by selecting **Use Personal Room for all my instant meetings** in Cisco Webex Meetings.
- 

## Push Notification Service for Cisco Jabber Video and Voice Calls

Clients			
Windows	Mac	iPhone and iPad	Android
—	—	Yes	Yes

Deployments			
On-Premises	Webex Messenger	Team Messaging Mode	Softphone for VDI
Yes	Yes	Yes	—

Cisco Jabber users can receive push notification for Jabber voice and video calls. This feature works when the device is locked, whether Jabber runs in the background or foreground, and whether the Jabber IM service is connected.

For information on push notifications for IMs, see [Push Notification Service for IM](#).

### Jabber for iPhone and iPad

From Release 12.1 onwards, the Apple Push Notification (APN) implementation supports push notification for users. Use APNs to ensure you receive chat messages and calls while Jabber is in the background.




---

**Note** Jabber MAM clients on iOS only support push notifications for voice calls, not for IMs.

---

## Jabber for Android

From Release 12.9.1 onwards, the Firebase Cloud Messaging (FCM) implementation supports push notification for users. Use FCM to ensure you receive chat messages and calls while Jabber is in the background.

### Prerequisites

- Jabber for iPhone and iPad
  - Cisco Unified Communications Manager 11.5.1 SU3 version or later  
But, you must upgrade to either version 11.5.1 SU8 or version 12.5.1 SU3 before April 2021.
  - Cisco Expressway X8.10  
But, you must upgrade to version X12.6 before April 2021.
- Jabber for Android
  - Cisco Unified Communications Manager 12.5.1 SU3 version or later
  - Cisco IM and Presence 12.5.1.1 SU3 (Jabber only)
  - Cisco Expressway X12.6

### How Push Notifications Are Delivered to Jabber

Jabber registers to APN services during the sign-in process. Users must sign in to Jabber to receive the push notifications service.

The Unified CM server pushes the notification to the Cisco cloud server, and the Cisco cloud server pushes this notification to the APN service. The APN service then delivers this notification to Jabber on the Cisco Jabber devices such as the iPhone and iPad. These devices relaunches Jabber to retrieve the call from the Unified CM server, thus making it possible to receive the incoming calls at any time.



---

**Note** If the user manually terminates Jabber with the push notification service enabled, then the **ForceLogoutTimerMobile** parameter doesn't function. We recommend that you disable the push notification service if you want to use the **ForceLogoutTimerMobile** parameter.

---

### Supported Services

- Phone-only and Full UC modes
- Shared line (You can pick the call from one device and transfer it to Jabber using Hold and Resume functions)
- CallKit (You can switch between Jabber calls, Jabber to native calls, and native to Jabber calls)

### Limitations

- If an incoming call disconnects before Jabber retrieves the call from the Unified CM server, then the missed call or call history isn't recorded.

- If you have both Cisco Jabber and Cisco Webex Teams installed, the application that first receives the incoming call displays the callkit.
- As of Release 12.9, peer-to-peer calls (locus calls) aren't supported.
- If you kill or suspend Jabber and you answer an incoming call, Jabber starts a connection to Unified CM. In this case, you might see a "call connecting" phase.
- The Jabber client disables push notifications as follows:
  - If your device doesn't have Google service (such as Huawei Mate 30 and later), the client disables push notification, even if you enable them on the server.
  - If your device has Google service and its region is "China Mainland", the client disables push notification, even if you enable them on the server.
  - For other devices in China, the client uses the server settings for push notifications.

## Enable Push Notification Service on Cisco Unified Communications Manager

### Procedure

---

- Step 1** Go to **Cisco Unified CM Administration > Advanced Features > Cisco Cloud Onboarding**.
  - Step 2** From the **Notification Settings**, check **Enable Push Notification**.
  - Step 3** Click **Save**.
- 

## (Optional) Use Push Notification with Single Number Reach

The processing time for push notifications can interfere with Single Number Ring (SNR). When you use push notifications with SNR, we recommend extending the wait before ringing to at least 13 seconds. This duration gives you time to answer the call.

### Procedure

---

- Step 1** In Cisco Unified CM Administration, select **Device > Phone**.
  - Step 2** Select your associated mobility identity and find the **Timer Information**.
  - Step 3** Set **Wait \* X seconds before ringing this phone when my business line is dialed** to at least **13**.
- 

## (Optional) Use Push Notification with Voicemail

The default setting for **No Answer Ring Duration (seconds)** for sending the call to voicemail is 12 seconds. Push notification processing can use most of this time. When you use push notifications with voicemail, we recommend extending the duration to at least 25 seconds. This duration gives you time to answer the call.

### Procedure

- 
- Step 1** In Cisco Unified CM Administration, select **Call Routing > Directory Number**.
- Step 2** Select your directory number and find the **Call Forward and Call Pickup Settings**.
- Step 3** Set **No Answer Ring Duration (seconds)** to at least 25.
- 

## Single Number Reach

Clients			
Windows	Mac	iPhone and iPad	Android
Yes	Yes	Yes	Yes

Deployments			
On-Premises	Webex Messenger	Team Messaging Mode	Softphone for VDI
Yes	Yes	Yes	Yes

With Single Number Reach (SNR), a user can automatically forward calls from their work number to their mobile phone if:

- Cisco Jabber isn't available.  
After Jabber becomes available again and connects to the corporate network, Unified CM sends calls to the Jabber client, rather than using SNR.
- Jabber mobile users select **Mobile Voice Network** or **Autoselect** and they're outside their Wi-Fi network.

A user can select or clear their SNR destination number from Cisco Jabber.

## Enable Single Number Reach

Use the following procedure to enable single number reach for your users.

### Before you begin

Make sure that the user has a device already assigned to them.

### Procedure

- 
- Step 1** Open the **Cisco Unified CM Administration** interface.
- Step 2** Configure the end user for single number reach as follows:
- Go to **User Management > End User**, search for the user and click their name.
  - In the **Mobility Information** section, check the **Enable Mobility** check box.

- c) On Cisco Unified Communications Manager Release 9.0 and earlier, specify the Primary User Device.
- d) Click **Save**.

**Step 3** Create their remote destination profile.

- a) Go to **Device > Device Settings > Remote Destination Profile > Add New**.
  - b) Enter the required values and click **Save**.
  - c) Click **Add a New Directory Number** and enter the directory number of the desk phone to associate with the remote destination profile.
  - d) Click **Save**.
  - e) Click **Add a New Remote Destination**, enter the number for your remote destination in **Destination number** and choose the **User ID**.
  - f) Click **Enable Unified Mobility** features, and click the following options:
    - **Enable Single Number Reach**
    - **Enable Move to Mobile**
  - g) Click **Save**.
- 

## Limitations

For Cisco TelePresence Video Communication Server Control (VCS) versions earlier than 8.10.X, you need to configure the following to enable the single number reach for your users who are using Cisco Jabber over Mobile and Remote Access.

### Procedure

---

**Step 1** From Cisco TelePresence Video Communication Server Control (VCS), choose **Configuration > Unified Communications > HTTP allow list > Editable inbound rules**

**Step 2** Click **New** to create a new entry

**Step 3** Enter the following details:

- **Description**—Enter the required description.
- **URL**—Enter the URL details. For example, `https://[CUCM domain name]: port number`.
- **Allowed Methods**—Check the default value. For example, `GET, POST, PUT`
- **Match Type**—Choose **Prefix match** from the drop-down list.

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

---



# URI Dialing

Clients			
Windows	Mac	iPhone and iPad	Android
Yes	Yes	Yes	Yes

Deployments			
On-Premises	Webex Messenger	Team Messaging Mode	Softphone for VDI
Yes	—	—	—

You can use the URI dialing feature for on-premises deployments. URI dialing requires Cisco Unified Communications Manager, Release 9.1(2) or later.



## Important

The mobile clients don't support URI dialing when you enable the Dial via Office-Reverse feature.

You enable this feature in the `jabber-config.xml` file with the `EnableSIPURIDialling` parameter.

Example: `<EnableSIPURIDialling>True</EnableSIPURIDialling>`

For more information on the values of the parameter, see the *Parameters Reference Guide*.

URI dialing allows users to make calls and resolve contacts with Uniform Resource Identifiers (URI). For example, a user whose name is Adam McKenzie has the following SIP URI associated with his directory number: `amckenzi@example.com`. URI dialing enables users to call Adam with his SIP URI, rather than his directory number.

For detailed information on URI dialing requirements and advanced configuration including ILS setup, see the *URI Dialing* section of the *System Configuration Guide for Cisco Unified Communications Manager*.

## Associate URIs to Directory Numbers

When users make URI calls, Cisco Unified Communications Manager routes the inbound calls to the directory numbers associated to the URIs. For this reason, you must associate URIs with directory numbers. You can either automatically populate directory numbers with URIs or configure directory numbers with URIs.

### Automatically Populate Directory Numbers with URIs

When you add users to Cisco Unified Communications Manager, you populate the **Directory URI** field with a valid SIP URI. Cisco Unified Communications Manager saves that SIP URI in the end user configuration.

When you specify primary extensions for users, Cisco Unified Communications Manager populates the directory URI from the end user configuration to the directory number configuration. In this way, automatically populates the directory URI for the user's directory number. Cisco Unified Communications Manager also places the URI in the default partition, which is **Directory URI**.

The following task outlines, at a high level, the steps to configure Cisco Unified Communications Manager so that directory numbers inherit URIs:

### Procedure

---

- Step 1** Add devices.
  - Step 2** Add directory numbers to the devices.
  - Step 3** Associate users with the devices.
  - Step 4** Specify primary extensions for users.
- 

### What to do next

Verify that the directory URIs are associated with the directory numbers.

## Configure Directory Numbers with URIs

You can specify URIs for directory numbers that are not associated with users. You should configure directory numbers with URIs for testing and evaluation purposes only.

To configure directory numbers with URIs, do the following:

### Procedure

---

- Step 1** Open the **Cisco Unified CM Administration** interface.
  - Step 2** Select **Call Routing > Directory Number**.  
The **Find and List Directory Numbers** window opens.
  - Step 3** Find and select the appropriate directory number.  
The **Directory Number Configuration** window opens.
  - Step 4** Locate the **Directory URIs** section.
  - Step 5** Specify a valid SIP URI in the **URI** column.
  - Step 6** Select the appropriate partition from the **Partition** column.  
**Note** You cannot manually add URIs to the system **Directory URI** partition. You should add the URI to the same route partition as the directory number.
  - Step 7** Add the partition to the appropriate calling search space so that users can place calls to the directory numbers.
  - Step 8** Select **Save**.
- 

## Associate the Directory URI Partition

You must associate the default partition into which Cisco Unified Communications Manager places URIs with a partition that contains directory numbers.



- 
- Important** To enable URI dialing, you must associate the default directory URI partition with a partition that contains directory numbers.
- If you do not already have a partition for directory numbers within a calling search space, you should create a partition and configure it as appropriate.
- 

### Procedure

---

- Step 1** Open the **Cisco Unified CM Administration** interface.
- Step 2** Select **System > Enterprise Parameters**.  
The **Enterprise Parameters Configuration** window opens.
- Step 3** Locate the **End User Parameters** section.
- Step 4** In the **Directory URI Alias Partition** row, select the appropriate partition from the drop-down list.
- Step 5** Click **Save**.
- 

The default directory URI partition is associated with the partition that contains directory numbers. As a result, Cisco Unified Communications Manager can route incoming URI calls to the correct directory numbers.

You should ensure the partition is in the appropriate calling search space so that users can place calls to the directory numbers.

## Enable FQDN in SIP Requests for Contact Resolution

To enable contact resolution with URIs, you must ensure that Cisco Unified Communications Manager uses the fully qualified domain name (FQDN) in SIP requests.

### Procedure

---

- Step 1** Open the **Cisco Unified CM Administration** interface.
- Step 2** Select **Device > Device Settings > SIP Profile**.  
The **Find and List SIP Profiles** window opens.
- Step 3** Find and select the appropriate SIP profile.  
**Remember** You cannot edit the default SIP profile. If required, you should create a copy of the default SIP profile that you can modify.
- Step 4** Select **Use Fully Qualified Domain Name in SIP Requests** and then select **Save**.
- 

### What to do next

Associate the SIP profile with all devices that have primary extensions to which you associate URIs.

## Voicemail Avoidance

Clients			
Windows	Mac	iPhone and iPad	Android
Yes	Yes	Yes	Yes

Deployments			
On-Premises	Webex Messenger	Team Messaging Mode	Softphone for VDI
Yes	Yes	Yes	Yes

Voicemail avoidance is a feature that prevents calls from being answered by the mobile service provider voice mail. This feature is useful if a user receives a Mobile Connect call from the enterprise on the mobile device. It is also useful when an incoming DvO-R call is placed to the mobile device.

You can set up voicemail avoidance in one of two ways:

- **Timer-controlled**—(Default) With this method, you set timers on the Cisco Unified Communications Manager to determine if the call is answered by the mobile user or mobile service provider voicemail.
- **User-controlled**—With this method, you set Cisco Unified Communications Manager to require that a user presses any key on the keypad of the device to generate a DTMF tone before the call can proceed.

If you deploy DvO-R, Cisco recommends that you also set user-controlled voicemail avoidance. If you set user-controlled Voicemail Avoidance, this feature applies to both DvO-R and Mobile Connect calls.

For more information about voicemail avoidance, see the *Confirmed Answer and DvO VM detection* section in the *Cisco Unified Communications Manager Features and Services Guide* for your release.

## Set Up Timer-Controlled Voicemail Avoidance

Set up the timer control method by setting the **Answer Too Soon Timer** and **Answer Too Late Timer** on either the Mobility Identity or the Remote Destination. For more information, see the *Add Mobility Identity* or *Add Remote Destination (Optional)* topics.

### Before you begin

Timer-controlled voicemail avoidance is supported on Cisco Unified Communications Manager, release 6.0 and later.

## Set Up User-Controlled Voicemail Avoidance



### Important

User-controlled voicemail avoidance is available on Cisco Unified Communications Manager, release 9.0 and later.

Set up User-Controlled Voicemail Avoidance as follows:

1. Set up Cisco Unified Communications Manager using the *Set Up Cisco Unified Communications Manager to Support Voicemail Avoidance* topic.
2. Set up the device using one of the following topics:
  - *Enable Voicemail Avoidance on Mobility Identity*
  - *Enable Voicemail Avoidance on Remote Destination*

**Important**

Cisco does not support user-controlled voicemail avoidance when using DvO-R with alternate numbers that the end user sets up in the client. An alternate number is any phone number that the user enters in the DvO Callback Number field on the client that does not match the phone number that you set up on the user's Mobility Identity.

If you set up this feature with alternate numbers, the Cisco Unified Communications Manager connects the DvO-R calls even if the callback connects to a wrong number or a voicemail system.

## Set Up Cisco Unified Communications Manager to Support Voicemail Avoidance

Use this procedure to set up the Cisco Unified Communications Manager to support user-controlled Voicemail Avoidance.

### Procedure

- Step 1** Open the **Cisco Unified CM Administration** interface.
- Step 2** Select **System > Service Parameters**.
- Step 3** In the **Server** drop-down list, select the active Cisco Unified Communications Manager.
- Step 4** In the **Service** drop-down list, select the **Cisco Call Manager (Active)** service.
- Step 5** Configure the settings in the **Clusterwide Parameters (System - Mobility Single Number Reach Voicemail)** section.

**Note** The settings in this section are not specific to Cisco Jabber. For information about how to configure these settings, see the *Confirmed Answer and DvO VM detection* section in the *Cisco Unified Communications Manager Administrator Guide* for your release.
- Step 6** Click **Save**.

## Enable Voicemail Avoidance on Mobility Identity

Use this procedure to enable user-controlled voicemail avoidance for the end user's mobility identity.

### Before you begin

- Set up the annunciator on the Cisco Unified Communications Manager. For more information, see the *Annunciator setup* section in the *Cisco Unified Communications Manager Administrator Guide* for your release.

- If you set up a Media Resource Group on the Cisco Unified Communications Manager, set up the annunciator on the Media Resource Group. For more information, see the *Media resource group setup* section in the *Cisco Unified Communications Manager Administrator Guide* for your release.

### Procedure

---

**Step 1** Open the **Cisco Unified CM Administration** interface.

**Step 2** Navigate to the device that you want to configure as follows:

- a) Select **Device > Phone**.
- b) Search for the device that you want to configure.
- c) Select the device name to open the **Phone Configuration** window.

**Step 3** In the **Associated Mobility Identity** section, click the link for the Mobility Identity.

**Note** To ensure that the Voicemail Avoidance feature works correctly, the DvO Callback Number that the end user enters in the Cisco Jabber client must match the Destination Number that you enter on the Mobility Identity Configuration screen.

**Step 4** Set the policies as follows:

- Cisco Unified Communications Manager release 9 — In the **Single Number Reach Voicemail Policy** drop-down list, select **User Control**.
- Cisco Unified Communications Manager release 10 without Dial via Office — In the **Single Number Reach Voicemail Policy** drop-down list, select **User Control**.
- Cisco Unified Communications Manager release 10 with Dial via Office
  - In the **Single Number Reach Voicemail Policy** drop-down list, select **Timer Control**.
  - In the **Dial-via-Office Reverse Voicemail Policy** drop-down list, select **User Control**.

**Step 5** Click **Save**.

---

## Enable Voicemail Avoidance on Remote Destination

Use this procedure to enable user-controlled voicemail avoidance for the end user's remote destination.

### Before you begin

- Set up the annunciator on the Cisco Unified Communications Manager. For more information, see the *Annunciator setup* section in the *Cisco Unified Communications Manager Administrator Guide* for your release.
- If you set up a Media Resource Group on the Cisco Unified Communications Manager, set up the annunciator on the Media Resource Group. For more information, see the *Media resource group setup* section in the *Cisco Unified Communications Manager Administrator Guide* for your release.

## Procedure

- 
- Step 1** Open the **Cisco Unified CM Administration** interface.
- Step 2** Navigate to the device that you want to configure as follows:
- Select **Device > Phone**.
  - Search for the device that you want to configure.
  - Select the device name to open the **Phone Configuration** window.
- Step 3** In the **Associated Remote Destinations** section, click the link for the associated remote destination.
- Step 4** Set the policies as follows:
- Cisco Unified Communications Manager release 9 — In the **Single Number Reach Voicemail Policy** drop-down list, select **User Control**.
  - Cisco Unified Communications Manager release 10 without Dial via Office — In the **Single Number Reach Voicemail Policy** drop-down list, select **User Control**.
  - Cisco Unified Communications Manager release 10 with Dial via Office
    - In the **Single Number Reach Voicemail Policy** drop-down list, select **Timer Control**.
    - In the **Dial-via-Office Reverse Voicemail Policy** drop-down list, select **User Control**.
- Step 5** Click **Save**.
- 

## Voice Messages

Clients			
Windows	Mac	iPhone and iPad	Android
Yes	Yes	—	—

Deployments			
On-Premises	Webex Messenger	Team Messaging Mode	Softphone for VDI
Yes	Yes	Yes	—

The voicemail screen includes these extra options:

- Users can record voice messages without making a call and then send the message. Users can select recipients from the voicemail server's catalog.
- Users can directly reply to the sender of a voicemail or to all recipients of that message.
- Users can forward voicemails to new recipients.

The voicemail server's administrator can also create distribution lists to which users can send messages.

## Show Sent Voice Messages

Clients			
Windows	Mac	iPhone and iPad	Android
Yes	Yes	—	—

Deployments			
On-Premises	Webex Messenger	Team Messaging Mode	Softphone for VDI
Yes	—	—	—

If you set a retention period for sent messages in Cisco Unity Connection, users can access their sent voice messages in Jabber.

### Procedure

- 
- Step 1** In **Unity Connection Administration**, go to **Messaging Configuration**.
- Step 2** Set **Sent Messages: Retention Period (in Days)** to a positive number to enable this feature.
- 

## Auto Answer Calls

You can configure a CSF device to auto answer incoming Jabber calls. In Unified CM, you can set the device to either auto answer with a headset or with a speakerphone.

Do not configure auto answer on a shared line unless all the connected devices support auto answer.




---

**Note** If you also enable zip tones, the zip tone only plays with Jabber when the CSF device auto answers with a headset. Zip tones do not play when a speakerphone auto answers the call.

---

## Jabber with Cisco Unified Contact Center

You can use Cisco Jabber as an agent phone in a contact center environment. We support the following Cisco Unified Contact Center features with Jabber:

- **CTI Servitude**—Unified Contact Center deployments can control a Jabber softphone through CTI.
- **Auto Answer**—You can configure auto answer for a Jabber CSF device in Unified CM. But, all devices on a shared line must support auto answer.
- **Zip Tone**—You can use zip tones with auto answer with a headset. Auto answer with a speakerphone doesn't support zip tones.



- **Whisper Announcement**—You can use whisper announcement to play an introductory message to the agent.
- **Agent Greeting**—You can use agent greeting to play pre-recorded messages to the customer.
- **Silent Monitoring**—A supervisor can monitor an incoming call.
- **Supervisor Barge-In**—Using cBarge, a supervisor can inject themselves into an active call. You must configure network-based media resources and have them available to Jabber to support this feature. This feature works in cBarge mode even when you enable the Built-in-Bridge (BiB) on Jabber.
- **Call Recording**—You can send a recording stream to a recording server that Cisco Unified Contact Center supports.



---

**Note** Jabber doesn't support Extension Mobility in contact center deployments.

---

## Reduce Server Load from Phone Number Resolution Requests

When you launch Jabber, Jabber attempts to look up each caller in the call history from the contact source. In deployments like contact centers where most calls are from external numbers, these requests are unnecessary overhead for external phone numbers. With a high volume of external calls, these requests can place a significant load on your LDAP or UDS server.

If you need to reduce this load, you can use the `DisableCallHistoryResolution` parameter.

