# Install and Configure IP Communicator with CallManager

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# Introduction

This document outlines the basic steps required to install and configure Cisco IP Communicator with Cisco CallManager 4.x/5.x/6.x through manual setup. For autoregistration setup or wide–scale deployments, refer to Preparing to Deploy Cisco IP Communicator and Deploying and Updating Cisco IP Communicator. Cisco IP Communicator version 2.1 supports Session Initiation Protocol (SIP) as well as the Cisco Unified Communications Manager Skinny Client Control Protocol (SCCP).

**Note:** Cisco IP Communicator is supported in Cisco CallManager 3.3(4). But, this document focuses on Cisco CallManager 4.x/5.x/6.x.

# Prerequisites

#### Requirements

Cisco recommends that you have knowledge of Cisco CallManager 4.x/5.x/6.x.

#### **Components Used**

The information in this document is based on these software versions:

- Cisco IP Communicator version 1.1 and 2.x
- Cisco CallManager 4.x/5.x/6.x

**Note:** Refer to Release Notes for Cisco IP Communicator 2.1 for more information on how to find Cisco IP Communicator support for Microsoft Windows Vista.

**Note:** Cisco IP Communicator is supported with Cisco Unified CallManager Express 3.3 and later with Cisco IOS<sup>®</sup> Software Release 12.4 Mainline, but when used simultaneously with Cisco Unified Video Advantage, Cisco Unified Communications Manager Express 4.0 (or later) is required.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

#### Conventions

Refer to Cisco Technical Tips Conventions for more information on document conventions.

## **System Requirements**

Cisco IP Communicator requires:

- Cisco Unified Communications Manager 5.0 and later versions when you use Cisco IP Communicator with SIP call–control protocol
- Cisco Unified CallManager Express 3.3 when you use Cisco IOS Software Release 12.4 Mainline
- Cisco Unified Communications Manager Express 4.0 and later versions when you use Cisco IP Communicator with Cisco Unified Video Advantage. Cisco Unified Video Advantage 2.0 or later support video telephony. Ensure your camera is supported by video advantage, and refer to Supported USB Cameras for more information.
- x86-based processors that run a 32-bit OS; currently 64-bit OSs are not supported.
- Cisco IP Communicator supports SRST with Cisco Unified Survivable Remote Site Telephony 3.3 with mainline or 4.0 and later versions (SCCP only).
- Cisco Unified Video Advantage gets supported on Cisco IP Communicator from Cisco Unified Communications Manager Version 4.x.

**Note:** Cisco IP Manager Assistant can be loaded as an application on the same PC as Cisco IP Communicator, but it does not work in the Cisco IP Communicator interface or application.

## Prepare and Configure Cisco CallManager

#### Verify Cisco CallManager Version

In order to set up Cisco IP Communicator in Cisco CallManager 4.x, you must make sure that your CallManager version is no earlier than 4.0(1)sr2.

Go to the main menu window, choose **Help** > **About Cisco CallManager**, and then click **Details** to check your Cisco CallManager version.

System I	Route Plan Serv	vice Feature Devi	ce User	Application	Help	
Cisco For Cisco I	CallManag P Telephony Solutions	ger Administ	ration		Contents and Index For this page Component Versions About Cisco CallManager	CISCO SYSTEMS
		Cisco Call Details Copyright © 1 All rights rese	1 Microsoft	Internet Explore When reporting or the following inform Gisco CallManager Gisco CallManager Gisco CallManager Database Informal DSN: SERVER: DATABA	r troubleshooting a problem, please nation to Technical Assistance: System version: 4.0(1)sr2 Administration version: 4.0(0.333 Installation ID: 4.0(1)sr2 tion CiscoCallManager NIGHTMARE SE: CCM0302	x)
This produ transfer ar use encryp By using ti local laws, A summar http://www If you req	ict contains cryptogra nd use. Delivery of C ption. Importers, exp his product you agre , return this product i y of U.S. laws gover <u>w.cisco.com/wwl/exp</u> uire further assistance	aphic features and is su lisco cryptographic pro corters, distributors and e to comply with applic immediately. ning Cisco cryptograph cort/crypto/tool/starg.hi ce please contact us by	ducts upes ducts upes able laws a ic products trnl, sending en	noc mply onro-p responsible for o nd regulations. I may be found at nail to export@ci	OK arcy automicy to import, exp compliance with U.S. and loca f you are unable to comply w t: sco.com.	export, orr, arstribute or al country laws. with U.S. and

If your Cisco CallManager version is not at least 4.0(1)sr2, make sure you download the ciscocm.4–0–1–sr2.exe patch from the Cisco CallManager Version 4.0 Software Download Center (registered customers only) and apply it to Cisco CallManager. The Apply sr2 Patch to Cisco CallManager 4.x section describes this process.

#### Apply sr2 Patch to Cisco CallManager 4.x

**Caution:** Application of the sr2 patch to Cisco CallManager should be performed during non–business

hours, because this process results in interruption of all CallManager services and a server reboot.

In order to add Cisco IP Communicator as a phone from the device list, you must have Cisco CallManager 4.0(1)sr<sup>2</sup>. You can apply the sr<sup>2</sup> patch directly to 4.0(1) or 4.0(1)sr<sup>1</sup> to take you to 4.0(1)sr<sup>2</sup>.

- After you download the sr2 patch, copy the file to a temporary directory on your Cisco CallManager server. If you do not have direct access to Cisco CallManager, use the Virtual Network Computing (VNC) in order to connect to the Cisco CallManager from a client PC that runs VNC Viewer.
- 2. From the directory to which you copied sr2, double-click the executable file. This window appears:



3. Click **Next** and complete the instructions on the window in order to complete the steps to update Cisco CallManager to 4.0(1)sr2. After the server is rebooted, verify that the Cisco CallManager version is 4.0(1)sr2. See the Verify Cisco CallManager Version section.

#### **Configure Cisco CallManager**

**Note:** Run **CiscoIPCommunicatorAdminToolSetup.exe** and install on the TFTP server or Cisco CallManager Publisher. This tool installs the DirectoryWizard tool for configuring the Quick Search and Dialing Rules features. You can download the CiscoIPCommunicatorAdminToolSetup.exe (registered customers only).

**Note:** In this setup, the default Calling Search Space and partitions are used. Only required fields are filled out, which leaves everything else at default except the Owner User ID. In a typical IP phone network, several partitions and Calling Search Spaces are defined.

Complete these steps in order to configure Cisco IP Communicator:

1. Go to the main menu window, choose **Device > Phone > Add a New Phone**, and then select **Cisco IP Communicator** from the Phone type pull–down menu.

System Route Plan	Service Feature De	vice User Application	Help	
Cisco CallMa For Cisco IP Telephony Se	nager Adminis	stration		Cisco Systems
Add a New	/ Phone			
Select the type of	the phone you would I	ike to create:		
Phone type* Status: Ready * indicates required iter	Cisco IP Communicator Cisco 7912 Cisco 7920 Cisco 7935 Cisco 7936 Cisco 7940 Cisco 7960 Cisco 7960 Cisco 7970 Cisco ATA 186 Cisco IP Communicator CTI Port H.323 Client	Next		

2. Click **Next** in order to get to the Phone Configuration window. Fill out the required details, such as the MAC address of the phone. This address should typically be a fixed network interface card (NIC) where Cisco IP Communicator is installed.

S	ystem	Route Plan	Service Fe	ature Device	User Application	Help : : : :	
	Cisco CallManager Administration						
	Pho	ne Con	figura	tion		Back	Add a new phone to Find/List Phones
	Directo	ry Numbers	Phone:	New			
	Lines ca	in be added afte	Status: Re	eady			
	in the d	atabase.	Insert				
			Phone C	Configuration	(Model = Cisco IP	Communicator)	
			Device 1	Information			
			MAC Add	dress*	000347B98B86		
			Descripti	ion	IPCC		
			Owner U	lser ID	jdoe	(Select	User ID)
			Device P	ool*	Default	View	details)
			Calling S	earch Space	< None >	*	
			AAR Calli	ing Search Spa	ce <none></none>	*	
			Media Re	esource Group	List <none></none>	•	
			User Hol	d Audio Source	None >	•	
			Network	Hold Audio So	urce <none></none>	•	
			Location	1	< None >	*	
			User Loc	ale	< None >	•	
			Network	Locale	< None >	•	
			Built In B	Bridge	Default	×	
			🗷 Retry	Video Call as	Audio		
			Phone B	Button Templa	ate Information		
			Phone B	utton Template	* Default IP Comm	nunicator Template 💌	(View button list)
			Softkey	Template Inf	ormation		

3. Click **Insert**. This message appears:



4. Click **OK** in order to get to the Directory Number Configuration window. Fill out the required fields.

sociated With	Directory Number: Now	
	Status: Ready	
	Note: Any update to this Directory N	lumber automatically resets the associated devices
	<u>Ada</u>	
	Directory Number	(analysis)
	Directory Number*	2500
	Partition	< None > •
	Directory Number Settings	
	Voice Mail Profile	(Choose <none> to use default)</none>
	Calling Search Space	< None >
	AAR Group	< None > 💌
	User Hold Audio Source	< None >
	Network Hold Audio Source	< None >
	Auto Answer	Auto Answer Ott
	Call Forward and Pickup Sett	ings
	Voice Mail	Destination Calling Search Space
	Forward All	<none></none>
	Forward Busy	<none></none>
	Forward No Answer	<none> •</none>
	No Answer Ring Duration	(seconds)
	Call Piekup Group	(None)
	MLPP Alternate Party Setting	Js
	Target (Destination)	
	Calling Search Space	< None >
	No Answer Ring Duration	(seconds)
	Line Settings for this Device	
	Display (Internal Caller ID)	
	Line Text Label	
	External Phone Number Mask	
	Message Waiting Lamp Policy	Lise System Policy
	Pine Settion (Phone Idle)	Lise System Datault
	Pine Setting (Phone Active)	Lies Sustan Datault w
	Multiple Call / Call Waition St	ettings
	Maximum Number of Calls*	4 /1 - 200)
	Puere Trianacă	
	Ecomonded Call Information I	C (<= Max. Calls)
	Caller Name	Caller Number
	Redirected Number	
	* indicates required item; changes t	b Line or Directory Number settings require restart.
	** Ring Setting (Phone Active) appli in progress.	es to this line when any line on the phone has a call
	Note: 2f you are using a language other th Label text, make sure the correct of incorrectly if the wrong characteriset character sets.)	aan English far Display (Isternal Caller ID) or Line Tex Haracter set (shown below) is selected. Text displays Lis selected. (English characters are included in all
	Character Set Western Europe	eon (Latin 1)

5. Click Add. This message appears:

Microsoft	: Internet Explorer
<b>\$</b>	The directory number has been assigned to the current device. Click OK to return to the current device, or Cancel to stay on the Directory Number page.
	OK Cancel

You have now completed the configuration for Cisco CallManager.

#### Install Cisco IP Communicator version 1.1.x or 2.x

**Note:** In order to install Cisco IP Communicator in a Laptop/PC that runs Microsoft Windows Vista, it is necessary to connect the headset to the sound card first in order to activate it and then proceed to install the Cisco IP Communicator.

Cisco IP Communicator version 2.1 supports Session Initiation Protocol (SIP) as well as the Cisco Unified Communications Manager Skinny Client Control Protocol (SCCP). Cisco IP Communicator 2.1 is supported with Cisco Unified Communications Manager 4.1(3) SR4 and later versions. Cisco IP Communicator supports SIP protocol only with Cisco Unified CallManager 5.x and 6.x.

Complete these steps:

1. Double-click the **CiscoIPCommunicatorSetup.exe** icon to run the Install Wizard. This window appears:



- 2. Click Next and follow the instructions.
- 3. Once the installation is complete, this window appears:



4. Check the **Launch the program** check box and click **Finish**. The Audio Tuning Wizard window appears:

🚯 Audio Tu	🚯 Audio Tuning Wizard			
<b>A</b>	Use this Wizard to Select and Tune Audio Devices			
42	This wizard helps you to select and tune audio devices for Cisco IP Communicator and verify that they are working properly. Before you continue:			
	Close all other programs that play or record sound, such as Microsoft Sound Recorder.			
	Make sure the audio devices (headset, speakers, microphone and handset) you wish to use are plugged in and turned on.			
	If you are using a headset, position its microphone as close to your mouth as recommended by the headset manufacturer.			
	To continue, select Next.			
	< <u>B</u> ack Cancel			

5. Click Next. The Select Audio Devices window appears:

n Audio Tuning Wizard	d - Select Audio Devices	×
Select Audio Devic	ces	-
Select the audio devic and ringer. If you have use for Handset mod modes, see the user	ces you wish to use for Communicator's three audio modes a USB Handset device connected to your PC, select it to e. If you need help understanding audio devices and guide.	
		1
Headset:	Crystal SoundFusion(tm)	
Speakerphone:	Crystal SoundFusion(tm)	
Ringer:	Crystal SoundFusion(tm)	
Handset:	Crystal SoundFusion(tm)	
	< <u>B</u> ack <u>Next</u> Cancel	

6. Choose the appropriate devices from the pull–down lists and click **Next**. Now you must adjust the listening volume.

👔 Audio Tuning Wiz	ard - Adjust the Listening Volume for 'Crystal SoundFusio 🗙					
Adjust the Lister	Adjust the Listening Volume					
For this test you sh button and then ad played at a comford setting the Wave sl comfortable level. I cord inline volume maximum values b	ould be listening to the playback device below. Press the <b>Play</b> just the Volume sliders until the sample sounds are being table level. If you see both a Master and a Wave slider, try lider at 75% and then adjusting the Master slider to a f this device has external volume controls such as a headset control, increase the external volume controls to their before tuning.					
Playback device:	Crystal SoundFusion(tm)					
Wave volume:	<u>·····</u>					
Master volume:	<u> </u>					
	Play					
	< <u>B</u> ack <u>N</u> ext > Cancel					

7. Complete the instructions in order to adjust the listening volume, and then click **Next**. The Adjust the Microphone Volume window appears:

🚯 Audio Tuning Wizard - Adjust the Microphone Volume for 'Crystal SoundFus 🗙
Adjust the Microphone Volume
For this test you must speak into the recording device listed below. Press the <b>Test</b> button and read this message at the typical volume at which you would speak while on a phone call. Adjust the volume sliders until the level meter peaks at the highest yellow segment. If you see both a Master and a Fine slider, try setting the Master slider at 75% and then adjusting the Fine slider to a comfortable level. If the level meter does not peak above the green segments even when the volume sliders are set to their highest levels, try enabling <b>Microphone Boost</b> if available
Recording device: Crystal SoundFusion(tm)
Fine volume:
Microphone Boost
Stop
< <u>B</u> ack Cancel

8. Complete the instructions in order to adjust the Microphone Volume, and then click **Next**. The last window appears:

nt Audio Tu	ning Wizard
~	You have now completed the Audio Tuning Wizard
4.	<ul> <li>Run this Wizard again if:</li> <li>You connect a new device</li> <li>Experience audio quality issues with your audio devices</li> <li>Change your audio settings in another program such as the Sounds and Multimedia Control Panel</li> </ul>
	This Wizard may reappear automatically when you launch Cisco IP Communicator if you have changed any of your audio settings outside the Wizard. You should choose <b>Revert</b> unless you wish to make changes to your audio settings.
	To close this wizard, click Finish.
	< <u>B</u> ack Finish Cancel

9. Click **Finish**. If your TFTP setup is incorrect, you get this error:



10. Click **OK**. This window appears automatically:

R Preferences		? ×
User Network Audio Directorie	es	_
Device Name		1
Network Adapter:	NTS PPPoE Adapter #1	
Device Name:	None Cisco 350 series Wireless LAN Adapter. Intel(R) PR0/100 SP Mobile Combo Adapter	
TFTP Servers	NTS PPPoE Adageter #1	
C Use the default TFTP servers	3	
<ul> <li>Use these TFTP servers:</li> </ul>		
TFTP Server 1:	172 . 16 . 242 . 189	
TFTP Server 2:	0.0.0.0	
	OK Cano	;el

11. Click **Use these TFTP servers** and type in the IP address of the Cisco CallManager if you use a TFTP server on the Cisco CallManager. You must also choose the correct **Network Adaptor** and **Device Name**, or this error appears:

Communicator - Exception Error
Please select a network interface to register with Cisco CallManager. A default has been chosen for you.
OK

12. The next window asks for your username and password.

<b>#8</b> Preferences		? ×
User Network Audio	Directories	
User Information		
Username:	idoe	
Password:	*****	
User Input		
USB Handset:	None	]
Troubleshooting		
🔲 Enable Logging		
🔲 Hide on minimize		
E Bring to front on active	e call	
	OK Can	el

13. Enter your username and password and click **OK**. After a few seconds, the Cisco IP Communicator Launch window appears:



In order to avoid choppy voice issues, you need to make sure that you have enabled 802.1p QOS on the PC Network Adapter. Right–click on the connection that you use and choose **Properties**. For the PC Network Adapter, click **Configure** and choose the **Advanced** tab. Choose **802.1p QOS** and then choose **Enable** The default value for the **802.1p QOS** is **Disable**.

Broadcom NetXtreme Gigabit Ethern	et Properties	? ×
General Advanced Driver Details The following properties are available for the property you want to change on the on the right.	Resources Power Managem or this network adapter. Click e left, and then select its value	ient
Property: <b>802.1p QOS</b> Checksum Offload Ethemet@WireSpeed Flow Control Large Send Offload Locally Administered Address Speed & Duplex Wake Up Capabilities WOL Speed	Value: Disable Enable	
	ОК Са	ncel

**Note:** The Cisco CallManager sends keepalive acknowledge messages to the registered devices once every 30 seconds. If Cisco IP Communicator is behind a firewall, or if there is some Access Control List(ACL) configured in the network, the keepalive traffic between the Cisco CallManager and IP Communicator is blocked. In this case, make sure that the firewall/ACL is configured to pass TFTP and RTP traffic using the appropriate port range.

#### Additional Features Supported in Cisco IP Communicator 2.x

- Drag-and-drop dialing
- Copy-and-paste dialing
- Alphanumeric translation
- Keyboard shortcuts for starting and ending calls
- Non-intrusive call notification
- Support for Cisco CallManager Express
- Cisco CallManager 4.0/4.1 call features (privacy line key, extended services on line keys, multiple calls per line appearance, and so forth)

#### Use Optimize for Low Bandwidth with Cisco Conference Connection

Remote users who use IP Communicator with low bandwidth connections can experience better audio quality with a low-bandwidth codec.

• Choose **Preferences** > **Audio** from the Cisco IP Communicator right–click menu, and check **Optimize for low bandwidth** in order to specify low–bandwidth codec (G.729).

**Note:** When you use **Optimize for low bandwidth**, it is difficult to connect to some applications that use a different codec other than G.729. For example, Cisco Conference Connection can only use G.711 codec, thus Cisco IP Communicator is unable to dial a MeetMe Conference number.

You should see a similar IP phone bootup sequence, followed shortly by the phone lines that you configured. Your phone is now ready to dial or receive calls.

#### **Configuring All Eight Lines with IP Communicator**

The default Cisco IP Communicator template uses buttons one and two for lines and assigns buttons three through eight as speed dial. Modify your phone button template for IP Communicator in order to configure all eight lines. Complete these steps in order to modify a template:

- 1. Choose **Device > Device Settings > Phone Button Template** from the Cisco CallManager Administration web application.
- 2. Click Find.
- 3. Click on the copy sign next to Default IP Communicator Template.
- 4. Fill in a new Button Template Name, for example, IP Communicator eight lines..
- 5. Change buttons three through eight to **Line**.

Change the template to IP Communicator eight lines in the Phone Button Template field in the Cisco CallManager Administration Phone Configuration page in order to assign a template to a device.

#### **Configure Quick Search to Access a Personal Address Book**

You can configure Quick Search to Access a Personal Address Book with Windows–Based Cisco Unified Communications Managers. Refer to Configuring Quick Search by Using the Directory Wizard for more information.

Cisco Unified IP Phone Address Book Synchronizer Utility allows you to synchronize Microsoft Outlook and Outlook Express address book entries with the directory in Cisco Unified Communications Manager. Install the Cisco Unified IP Phone Address Book Synchronizer utility in order to synchronize with Microsoft Outlook. Choose **Application > Plugins** from Cisco Unified CallManager Administration, then locate and click **Cisco Unified IP Phone Address Book Synchronizer** in order obtain this software for distribution.

#### Ports Used by Cisco IP Communicator

IP Communicator is the same as normal IP phone, so it uses these ports:

- TFTP (UDP 69) In order to obtain phone configuration and software
- SCCP (TCP 2000) For skinny (SCCP) signaling
- HTTP (TCP 80) In order to access IP Phone services
- RTP (UDP 16384–32768) For audio

### Troubleshoot

#### **One-Way Audio Problems**

One-way audio problems are reported while calls are made through the Cisco IP communicator.

If you experience occasional one-way audio, try to hold and resume the call while the symptom occurs. This can resolve the problem.

#### Solution 1

If you experience one way audio while you make calls through Cisco IP Communicator, you need to check the connectivity between the IP Communicator and the gateway. If you cannot ping the gateway from the system on which IP communicator is installed, it can be due to some configuration issue, for example, Routing, Access–list and so forth, or due to some firewall configuration. If there is a firewall between IP Communicator and the gateway, make sure that the ports mentioned in the previous section are opened in the firewall. Refer to ASA 7.x/PIX 6.x and Above: Open/Block the Ports Configuration Example for more information on the PIX firewall configuration in order to open the ports.

**Note:** If you are have a one way audio issue with a Cisco IP Communicator 2.1(2), upgrade to version 2.1(3). Refer to Release Notes for Cisco IP Communicator 2.1 for more information.

#### Solution 2

If the remote party cannot hear the person who placed the call on a Cisco IP Communicator, it can be for one of these reasons:

- 1. The Cisco IP Communicator party has muted the recording device.
- 2. The Cisco IP Communicator party has plugged the headset and speaker plugs into the wrong ports on the PC.
- 3. The Cisco IP Communicator party is running another application that uses the microphone, such as a sound recorder or another software–based phone.
- 4. The Cisco IP Communicator audio settings are incorrect. See the User Guide for Cisco IP Communicator for more information.

If the Cisco IP Communicator party cannot hear the remote party, it can be for these reasons:

- 1. The Cisco IP Communicator user relies on an unsupported VPN. You must set up a web reflector page or manually specify the IP address in the Network Audio Settings window in order to resolve this issue. Right–click and choose **Audio tab > Network button**.
- 2. The Cisco IP Communicator user relies on an unsupported VPN, and Cisco IP Communicator is integrated with a Linux-based Cisco Unified Communications Manager (Release 5.x and later). Run the Cisco IP Communicator Administration Tool on a Windows serverin order to resolve the audio IP address auto-detection problem.
- 3. If Cisco IP Communicator is behind a firewall, use the appropriate port range and make sure that the firewall is configured to pass TFTP and RTP traffic.

#### **IP** Communicator Users are Unable to View Corporate Directory

IP Communicator users are unable to view corporate directory while connected remotely to the Cisco CallManager.

Complete these steps in order to resolve this issue:

- 1. Download **Cisco JTAPI** from the Cisco CallManager Admin Page and install in the PC where IP Communicator is installed. Choose **Install Plugins** from **Application** drop–down menu. Choose **Cisco JTAPI Plugins**, save in a local folder and install.
- 2. Download the latest version of IP Communicator from this location of IPC .
- 3. Choose Service > Service Parameters. Choose the Cisco CallManager server and choose Service > Cisco TFTP. Click Advanced and set false to these parameters and update it.
  - ♦ Enable Caching of Constant and Bin Files at Startup\*

♦ Enable Caching of Configuration Files\*

Clusterwide Parameters(Parameters that apply to all servers)				
Parameter Name	Parameter Value	Suggested Value		
Build CNF Files*	Build Selective	Build Selective		
Enable Caching of Constant and Bin Files at Startup*	False 💽	True		
Enable Caching of Configuration Files*	False 💌	True		
	Clusterwide Parameters(Param Parameter Name Build CNF Files* Enable Caching of Constant and Bin Files at Startup* Enable Caching of Configuration Files*	Clusterwide Parameters(Parameters that apply to all servers)         Parameter Name       Parameter Value         Build CNF Files*       Build Selective         Enable Caching of Constant and Bin Files at Startup*       Folse         Enable Caching of Configuration Files*       Folse		

**Note:** For Cisco CallManager 5.x/6.x, choose **Service Parameters** from the **System** menu in order to change these parameters.

- 4. Disable if any windows internal firewall exists. If multiple interfaces are used, disable all other interfaces except the interface which is associated with the IP communicator.
- 5. Restart the Cisco TFTP service and verify that corporate directory appears in the IP Communicator.

#### Registration Rejected Error DBConfig on Cisco CallManager 5.x

You get the Registration Rejected Error DBConfig error message when IPC connects to Cisco CallManager 5.x.

When you try to register an IP communicator to a Cisco CallManager, ensure the **Device Name** parameter of the **Device** menu value has the word **SEP** followed by the MAC address of the PC in which the IP communicator is running.

Complete these steps in order to resolve this error:

Choose **Phone** from the **Device** menu and then choose **Add New** and **IP Communicator** from the **Phone Type** drop down list. Next, enter **SEP**<**MAC address**> in the **Device Name** field and **Save** it.

Cisco Unified CM Administration For Cisco Unified Communications Solutions			
System 👻 Call Routing 🗸	Media Resources 👻 Voice Mail 👻 Device 👻 Application 👻 User Management 👻		
Phone Configuration			
Save			
- Status			
Product Type: Cis Device Protocol: SC	co IP Communicator CP		
Device Name*	SEP <mac-address></mac-address>		
Description			

## **Related Information**

- Cisco IP Communicator Q&A
- Cisco IP Communicator Administration Guide (1.1)
- Cisco IP Communicator Release 2.0
- Phone Button Template Configuration
- Voice Technology Support
- Voice and Unified Communications Product Support
- Troubleshooting Cisco IP Telephony
- Technical Support & Documentation Cisco Systems

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