

Deployment Guide for the Polycom® SoundStructure VoIP Interface for Cisco® Unified Communications Manager (SIP)

UC Software 4.0.1 | December 2011 | 1725-33223-001 Rev. A

Trademark Information

POLYCOM[®], the Polycom "Triangles" logo and the names and marks associated with Polycom's products are trademarks and/or service marks of Polycom, Inc. and are registered and/or common law marks in the United States and various other countries. All other trademarks are property of their respective owners. No portion hereof may be reproduced or transmitted in any form or by any means, for any purpose other than the recipient's personal use, without the express written permission of Polycom.

Patent Information

The accompanying product is protected by one or more U.S. and foreign patents and/or pending patent applications held by Polycom, Inc.

Disclaimer

Some countries, states, or provinces do not allow the exclusion or limitation of implied warranties or the limitation of incidental or consequential damages for certain products supplied to consumers, or the limitation of liability for personal injury, so the above limitations and exclusions may be limited in their application to you. When the implied warranties are not allowed to be excluded in their entirety, they will be limited to the duration of the applicable written warranty. This warranty gives you specific legal rights which may vary depending on local law.

© 2010 Polycom, Inc. All rights reserved. Polycom, Inc. 4750 Willow Road Pleasanton, CA 94588-2708 USA

No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without the express written permission of Polycom, Inc. Under the law, reproducing includes translating into another language or format.

As between the parties, Polycom, Inc., retains title to and ownership of all proprietary rights with respect to the software contained within its products. The software is protected by United States copyright laws and international treaty provision. Therefore, you must treat the software like any other copyrighted material (e.g., a book or sound recording). Every effort has been made to ensure that the information in this manual is accurate. Polycom, Inc., is not responsible for printing or clerical errors. Information in this document is subject to change without notice.

About This Guide

This guide explains how to deploy the Polycom[®] SoundStructure VoIP Interface in a Cisco[®] Unified Communications Manager (CUCM) environment for voice calls.

In this guide, you will find everything you need to set up the SoundStructure VoIP Interface in an environment running CUCM version 8.5. While CUCM versions 6 and 7 are compatible, the instructions and screen captures were created with CUCM version 8.5.

The following related documents SoundStructure VoIP Interface are available:

- SoundStructure Design Guide, which describe how to create SoundStructure projects with the SoundStructure VoIP Interface
- Quick Upgrade Guide, which describes how to upgrade an existing SoundStructure-based TEL1 or TEL2 system to SoundStructure VoIP Interface system
- UC Software 4.0.1 Administrator's Guide, which describes how to configure, customize, manage, and troubleshoot Polycom SoundPoint[®] IP, SoundStation[®] IP, and VVX phone systems
- Technical Bulletins, which describe workarounds to existing issues and provide expanded descriptions and examples
- Release Notes, which describe the new and changed features and fixed problems in the latest version of the software

For support or service, please contact your Polycom[®] reseller or go to Polycom Technical Support at http://www.polycom.com/support/voice/.

Polycom recommends that you record the phone model numbers and software (both the BootROM and Polycom® UC Software) for future reference.

SoundStructure VoIP Interface MAC Address:_____

UC Software version:

Partner Platform:

Contents

	About This Guide iii
	Contentsv
1	Overview
	Supported Phone Features
	Unsupported Phone Features
	Unsupported Cisco Features
	Topics Not Mentioned in This Guide
2	Configuring Cisco Unified Communications Manager2–1
	Changing Cisco Unified Communications Manager
	Part I: Phone Security Settings
	Part II: Adding a Phone User
	Part III: Adding a Device Entry
3	Setting Up the SoundStructure VoIP Interface
	Using the Web Configuration Utility
4	Troubleshooting the SoundStructure VoIP Interface4–1
	Line Registration Issues
	4-3

Overview

This guide provides information for system administrators who want to deploy the SoundStructure VoIP Interface in a Cisco® Unified Communications Manager environment.

The SoundStructure VoIP Interface is compatible with the following: Cisco Unified Communications Manager versions 6, 7, and 8.5. This guide was developed using version 8.5.

The topics in this guide include:

- Configuring Cisco Unified Communications Manager to manage the SoundStructure VoIP Interface phone. Refer to Configuring Cisco Unified Communications Manager on page 2-1.
- Setting up the SoundStructure VoIP Interface phone and changing the configuration files to work with Cisco Unified Communications Manager. Refer to Setting Up the SoundStructure VoIP Interface on page 3-1.

The topics in this chapter include:

- Supported Phone Features
- Unsupported Phone Features
- Unsupported Cisco Features
- Topics Not Mentioned in This Guide

Supported Phone Features

The following features are supported on the SoundStructure VoIP Interface:

- 2 to 16 call appearances
- Place a call/Receive a call
- Hold/Resume
- Consultative and blind transfer
- Incoming call forward

- Message Waiting Indicator
- Three-way audio conference with management options (join, split, mute)
- Server Redundancy

Unsupported Phone Features

The following features are not supported on the SoundStructure VoIP Interface due to proprietary Cisco extensions:

- Call Pickup, Group Call Pickup, Directed Call Pickup
- Call Park
- Presence and buddy lists
- Instant Messaging
- Automatic Call Distribution (ACD) Login/Logout
- Secure Real-Time Transport Protocol (SRTP)
- Last Call Return
- Barge-In
- Busy Lamp Field
- Conveying microphone mute status between endpoints

Unsupported Cisco Features

The following Cisco features are not supported on the SoundStructure VoIP Interface:

- Cisco XML Applications
- Cisco Phone directory
- Cisco ad-hoc conferencing
- Cisco TFTP software/configuration file download

Topics Not Mentioned in This Guide

The following topics are not covered in this guide:

- Configuration of other SIP registrars or proxy servers
- Cisco Unified Presence

Configuring Cisco Unified Communications Manager

The SoundStructure VoIP Interface, managed by Cisco Unified Communications Manager, is designed to be used like a traditional telephone on a public switched telephone network (PSTN).

This chapter provides basic instructions for setting up the SoundStructure VoIP Interface in a Cisco Unified Communications Manager (CUCM) v8.5 environment.

Changing Cisco Unified Communications Manager

The following settings must be verified or adjusted before connecting the SoundStructure VoIP Interface phone to Cisco Unified Communications Manager:

- Region settings should allow for an audio codec of G.722 for the best audio experience.
- Each SoundStructure VoIP Interface requires six Device License Units.

Adding the SoundStructure VoIP Interface to Cisco Unified Communications Manager requires three major tasks:

- Setting the phone security configuration
- Setting the phone user configuration
- Setting the phone device configuration

The following sections provide step-by-step instructions for adding a SoundStructure VoIP Interface to a Cisco Unified Communications Manager.

Part I: Phone Security Settings

To create the security profile that is used by the phone, follow these steps:

1. Open a Cisco Unified Communications Manager web administration session.

You will prompted to enter your user name and password.

2. Select System > Security > Phone Security Profile.

cisco	Cisco U For Cisco (nified C	M Ac munic	dministrations Solutions	on			adn
System 👻	Call Routing 👻	Media Resour	ces 👻	Advanced Features	•	Device	•	Application
Server								
Cisco L	Jnified CM							
Cisco L	Jnified CM Group							
Phone	NTP Reference							
Date/Ti	me Group							
Presen	ce Group							
Enterpr	ise Phone Configu	ration						
Service	e Parameters							
Securit	у	•	Ce	rtificate				
Applica	tion Server		Ph	one Security Profile	վեր		1	
Licensi	ng	•	SIP	Trunk Security Profile	•			
Geoloc	ation Configuratior	n	CU	MA Server Security P	rofile			
Geoloc	ation Filter							

3. Click Add New.

ahaha cisco	Cisco l For Cisco	Unified CM	Adminis nications S	stration olutions	ı		adn	ninist	Navi rator	gation <mark>C</mark> Sear	isco Ur rch Doc	nifie sume
System 👻	Call Routing 👻	Media Resources	✓ Advance	d Features 👻	Device	▼ A	pplication	τ ι	Jser Ma	nagement		p 🗸
Find and I	List Phone S	ecurity Profiles	;									
🕂 Add N	lew											
Dhone f	Cocumitu Dwof	ila										
Filone a	security From	lie										
Find Phon	e Security Prof	ile where Name	💙 be	gins with 📑	¥			F	ind	Clear F	ilter	÷
		No	active query	. Please en	ter your s	earch	criteria u:	sing th	he opti	ons abov	e.	
Add Ne	w.jh.											

4. Select Third-party SIP Device (Advanced) and click Next.



5. Enter the Phone Security Profile Information. In the **Name** text box, enter a profile name appropriate for the system, optionally enter a Description, and enable the **Enable Digest Authentication** check box.

cisco Cisco For Cisc	Unified CM Administration Navigation Cisco Unified CM A o Unified Communications Solutions administrator Search Documentation				
System 👻 Call Routing	▼ Media Resources ▼ Advanced Features ▼ Device ▼ Application ▼ User Management ▼ Help ▼				
Phone Security Prof	ile Configuration Related Links: <mark>Back To Fi</mark>				
🔚 Save 🗙 Delete	🗋 Copy Reset 🥒 Apply Config 🕂 Add New				
Status					
Phone Security Pro	file Information—				
Product Type: Device Protocol:	Third-party SIP Device (Advanced) SIP				
Name*	SoundStructureVoIP				
Description	SoundStructure VoIP Interface				
Nonce Validity Time*	600				
Transport Type*	TCP+UDP				
🗹 Enable Digest Aut	nentication				
_ ⊢Parameters used in	ı Phone —				
SIP Phone Port [*] 506	0				
- Save Delete	Copy Reset Apply Config Add New				
indicates required item.					

6. Click the **Save** button.

In the status bar near the top of the page, "Update Successful" should appear as shown next.



Part II: Adding a Phone User

Once the phone security settings have been created, you need to create a user for the SoundStructure VoIP Interface as detailed in the following steps.

1. To create a user, select User Management > End User



and click Add New as shown in the following figure.

cisco	Cisco Unified CM Administration Navigation Cisco Unified CM Administration Go For Cisco Unified Communications Solutions administrator Search Documentation About Logout
System 👻	Call Routing 👻 Media Resources 👻 Advanced Features 👻 Device 👻 Application 👻 User Management 👻 Help 👻
End User	Configuration
Add Ne	SW .
Status —	
i 0 rec	ords found
User	
Find User v	where First name 💌 begins with 💌 🛛 Find 🛛 Clear Filter 🖓 🚍
	No active query. Please enter your search criteria using the options above.
Add Nev	

2. In the **User ID** text box, enter a user ID according to system and account policies. In this example, the user name is set to **sstvoipuser**.

Status	
👔 Status: Ready	
User Information —	
User ID*	sstvoipuser
Password	
Confirm Password	
PIN	
Confirm PIN	

If you cannot add a user here, your system may be LDAP integrated, in which case you can use an existing user ID (essentially associating the phone to an existing user) or have your LDAP administrator create a new user ID for this phone.

3. In the **Last Name** text box, enter a last name. In this example, the value entered was LastName.

_ Status —		
i Status: Ready		
┌ User Information ——		
User ID*	sstvoipuser	
Password		
Confirm Password		
PIN		
Confirm PIN		
Last name*	LastName	

4. In the **Digest Credentials** text box, enter the digital credentials for the phone. Enter the same credentials in the **Confirm Digest Credentials** field.

This password will be used with the User ID as the authentication password in the phone's configuration file or when entering the line registration information with the Web Configuration Utility.

User Information ———	
User ID*	sstvoipuser
Password	
Confirm Password	
PIN	
Confirm PIN	
Last name*	LastName
Middle name	
First name	
Telephone Number	
Mail ID	
Manager User ID	
Department	
User Locale	< None >
Associated PC	
Digest Credentials	
Confirm Digest Credentials	•••••

5. Click the **Save** button.

In the status bar near the top of the page, "Update Successful" appears.

Part III: Adding a Device Entry

Once the user information has been entered, you may add the device information for the SoundStructure VoIP Interface.

1. Select **Device > Phone** and click **Add New**.

Cisco Unified CM Administration For Cisco Unified Communications Solutions	Navigation Cisco Unified CM Administration administrator Search Documentation About
Call Routing 👻 Media Resources 👻 Advanced Features 👻	Device - Application - User Management - Help -
	CTI Route Point
	Gatekeeper
	Gateway
	Phone from
	Trunk
	Remote Destination
	Device Settings

2. Select Third-party SIP Device (Advanced) as shown below,



and click Next.

3. Enter the Device Information as shown in the following screen and described next.

Device Information				
🗥 Device is not trusted				
MAC Address*	0004F2BF001D			
Description	Example SST VoIP Interface in Conference	Room		
Device Pool*	Default	~		
Common Device Configuration	< None >	~		
Phone Button Template*	Third-party SIP Device (Advanced)	~		
Common Phone Profile*	Standard Common Phone Profile	~		
Calling Search Space	< None >	*		
AAR Calling Search Space	< None >	~		
Media Resource Group List	< None >	~		
Location*	Hub_None	*		
AAR Group	< None >	*		
Device Mobility Mode*	Default	*		
Owner User ID	< None >	*		
Use Trusted Relay Point*	Default	*		
Always Use Prime Line*	Default	*		
Always Use Prime Line for Voice Message st	Default	*		
Calling Party Transformation CSS	< None >	*		
Geolocation	< None >	*		
🗹 Use Device Pool Calling Party Transform	ation CSS			
🗹 Retry Video Call as Audio				
Ignore Presentation Indicators (internal calls only)				
🗹 Logged Into Hunt Group				
Remote Device				

Note that the data shown in this section is only an example.

4. In the **MAC Address** text box, enter the MAC Address of the SoundStructure VoIP Interface. The MAC address is on the rear panel of the SoundStructure VoIP Interface as shown in the following figure and can also be found on the SoundStructure Studio Wiring page.



- 5. (Optional) In the **Description** text box, enter a description.
- **6.** From the **Device Pool** list, select the device pool appropriate for your Cisco Unified Communications Manager system phones.
- 7. From the Phone Button Template list, select Third-party SIP Device (Advanced).
- **8.** (Optional) From the **Calling Search Space** list, select an appropriate calling search space for the phone.
- **9.** From the Location list, select an appropriate location for the phone.

10. From the **Device Security Profile** list, select the profile created in step 5 of Part I: Phone Security Settings.

The following screen appears. Note that the data shown in this section is only an example.

Protocol Specific Information-		
Presence Group*	Standard Presence grou	ib 🔥
MTP Preferred Originating Codec*	711ulaw	V
Device Security Profile*	SoundStructureVoIP	*
Rerouting Calling Search Space	< None >	*
SUBSCRIBE Calling Search Space	< None >	×
SIP Profile*	Standard SIP Profile	*
Digest User	sstvoipuser	*
Media Termination Point Require	ed	
Unattended Port		
Require DTMF Reception		

- **11.** In the **SIP Profile** field, enter the desired SIP profile.
- **12.** In the **Digest User** field, select the user created in step 2 of Part II: Adding a Phone User. In this example, the user is sstvoipuser.
- **13.** Click the **Save** button.

In the status bar near the top of the page, "Update Successful" appears.

14. Click **Apply Config.** The resulting status message will appear. Click **OK** to continue.

Apply Configuration
- Status
i Status: Ready
Apply Configuration Information
Selected Device: SEP0004F2BF001D (Example SST ¥oIP Interface in Conference Room; Third-party SIP Device (Advanced))
Note: Please save the configuration before continuing. When you click apply config, the device may go through a restart. When restart is initiated, connected calls will be preserved but calls in progress may be dropped.
OK Cancel

15. In the **Association Information** area on the left side of the window, click on the **Line [1] – Add a new DN** link.

-Association Information		
	Modify Button Items	
1	<u>Eine [1] - Add a new DN</u>	
2	Line [2] - Add a new DN	
3	Line [3] - Add a new DN	
4	<u>Eine [4] - Add a new DN Internet (4)</u>	
5	<u>Eine [5] - Add a new DN</u>	
6	<u>Eine [6] - Add a new DN וine [6] - Add a new DN</u>	
7	<u>Eine [7] - Add a new DN</u>	
8	<u> Eine [8] - Add a new DN</u> פאזי	

16. In the **Directory Number** text box, enter an appropriate phone extension. In this example, the extension 1234 is used.

-Directory Number I	nformation	•
Directory Number*	1234	
Route Partition	< None >	
Description		
Alerting Name	sstvoipuser	
ASCII Alerting Name	sstvoipuser	
Associated Devices	SEP0004F2BF001D	
	2	

- **17.** From the **Route Partition** list, select an appropriate route partition.
- **18.** In the **Alerting Name** text box, enter an appropriate alerting name. In this example, sstvoipuser is used.
- **19.** In the **ASCII Alerting Name** text box, enter an appropriate ASCII alerting name. In this example, sstvoipuser is used.

20. Set the **Voice Mail Profile** according to the Cisco Unified Communications Manager system requirements. The default settings were used in the following figure.

1	-Directory Number Settings—		
	Voice Mail Profile	< None >	(Choose <none> to use system</none>
	Calling Search Space	< None >	
	Presence Group*	Standard Presence group 🛛 👻	
	User Hold MOH Audio Source	< None >	
	Network Hold MOH Audio Source	< None >	ľ

21. Set the **Call Forward and Call Pickup Settings** to appropriate values for your system. In this example, no settings were changed.

	Voice Mail	Destination	Calling Search Space	
Calling Search	Space Ad	tivation Policy	Use System Default	~
Forward All	🗌 or		< None >	*
Secondary Ca	lling Sear	h Space for Forward All	< None >	*
Forward Busy Internal	🗖 or		< None >	*
Forward Busy External	🗌 or		< None >	*
Forward No Answer Internal	🗖 or		< None >	~
Forward No Answer External	🗖 or		< None >	*
Forward No Coverage Internal	🗖 or		< None >	*
Forward No Coverage External	🗖 or		< None >	*
Forward on CTI Failure	🗌 or		< None >	*
Forward Unregistered Internal	or 🗌		< None >	~
Forward Unregistered External	🗌 or		< None >	*
No Answer Ring	Duration	(seconds)		
Call Pickup Gro	up	< None >	×	

22. In the **Display (Internal Caller ID)** text box, enter an appropriate caller ID. In this example, Conference Room was entered. This text will be shown on the recipient's phone when a call is received from the SoundStructure VoIP Interface.

1	Line 1 on Device 9	6EP0004F2BF001D	
	Display (Internal Caller ID)	Conference Room text such as a name instead of a directory number for call may not see the proper identity of the caller.	Display text for a line appearance is inten- internal calls. If you specify a number, the p
	ASCII Display (Internal Caller ID)	Conference Room	R.
	External Phone Number Mask		
	Monitoring Calling Search Space	< None > V	

- **23.** In the **ASCII Display (Internal Caller ID)** text box, enter an appropriate caller ID. In this example, **Conference Room** was entered.
- **24.** In the **Maximum Number of Calls** text box, enter an appropriate value for your system.

┌Multiple Call/Call Waiting Settings on Device SEP0004F2BF001D				
Note:The range to select the Max Number of 1-16	of calls is:			
Maximum Number of Calls*	2			
Busy Trigger*	2			
	Calls)			

Currently the maximum supported value for the SoundStructure VoIP Interface is 24.

25. In the **Busy Trigger** text box, enter an appropriate value for your system.

Currently the maximum supported value for the SoundStructure VoIP Interface is 24.

26. Click the **Save** button.

In the status bar near the top of the page, "Update Successful" appears.

You have completed the configuration of Cisco Unified Communications Manager.

Setting Up the SoundStructure VoIP Interface

This chapter provides instructions for setting up the SoundStructure VoIP Interface to register to the Cisco® Unified Communications Manager settings configured in the previous chapter.

Because of the large number of optional installations and configurations that are available, this chapter focuses on one particular way that the SoundStructure VoIP Interface may be configured in your network.

For more information on configuring the SoundStructure VoIP Interface phone, refer to the *Polycom UC Software Administrators Guide 4.0.1*, which is available at

http://supportdocs.polycom.com/PolycomService/support/global/docum ents/support/setup_maintenance/products/voice/UC_Software_Admin_G uide_v4_0_1.pdf.

Using the Web Configuration Utility

One approach to configuring the SoundStructure VoIP Interface for operation with a Cisco Unified Communications Manager is to use the Web Configuration Utility.

This section summarizes the steps required to register the SoundStructure VoIP Interface with the Call Manager settings that were created in Configuring Cisco Unified Communications Manager.

To configure the SoundStructure VoIP Interface, follow these steps:

1. Connect to your SoundStructure System by selecting **Search for Devices** from the Connect menu as shown in the following figure.

SoundStructure Studio				
File	Connect	Tools Help		
	Search for Devices			
	Address Book 사			

2. If the desired system was discovered, then select the system, highlight the **Get configuration from devices option** and click **Connect** as shown below. If your system is not present, you may either enter the IP address

Connect to Devic	ces				×
Search for Devices	Address Book				
Search: 🔽 Network 🔲 Serial	192.168.1.200 V	Refresh			
Name		Connection	MAC Address	Firmware	
🗉 🥝 Example Syste	em	192.168.1.85	00:04:f2:bf:01:3e	1.5.0	
l l	Example System				
	Address: 192.	168.1.85			
💿 G	iet configuration from de	vices			
() S	end configuration to de	vices	Connec	t Close]

manually or use the Address Book tab to find systems that are stored in your network.

3. Navigate to the Wiring Page by left clicking on the Wiring entry as shown in the following figure.



4. Confirm the SoundStructure VoIP Interface is installed in this system by reviewing the information on the wiring page. You should see that there



is a SoundStructure VoIP Interface listed with an ok status and a valid IP address.

5. If the interface is found, then click on **Web Configuration** button to launch the Web Configuration Utility in your PC's browser.

Network Settings	Device Information
Automatic configuration (DHCP) Manual configuration IP Address: 192,168,1,85 Netmask: 255,255,0 Gateway: 192,168,1,1	General Ø Device status: Ø Device type: c16 Bus ID: 1 Ethermet MAC: 00:04:f2bf:01:3e Plug-in card: voip Uptime: 8d 5h:12m:28s
VolP Settings Edit Network Settings Web Configuration Local Configuration Reset Factory Reset	Phantom power 13-16: Ø 47.9V +15V: Ø 14.7V -15V: Ø 14.7V -15V: Ø 14.9V ConferenceLink: Ø 48.1V VolP Interface VolP Status: VolP Status: Ø ok IP Address: 10.240.3.141 UC Software Version: Mink 4.0.1.10052 03-Nov-11 22.31 file BootRIOM Version: 5.0.1.8147 03-Nov-11 23:25
	Bootblock Version: 3.0.3.0012 (33215-001) 07-0ct-11 08:39 Board Information: 3111-33215-001 Rev=2 Region=0, MAC=00:04:F2:BF:00:1D

6. Log into the Web Configuration Utility by selecting **Admin** and entering the default password of **456** and click **Submit**.

Welcome to Polycom Web Configuration Utility	
Welcome to Polycom Web Configuration Utility	
Welcome to Polycom Web Configuration Utility	
Enter Login Information	
Login As 💿 Admin 🔿 User	
Password •••	
Submit June Reset	



7. Navigate to the **Settings > Lines** Page.

8. Select the desired line to configure. By default this will be **Line 1**. The screen below will display.

Line 1	
Identification	
Display Name	
Address	
Authentication User ID	
Authentication Password	
Label	
Туре	⊙ Private 🔿 Shared
Third Party Name	
Number of Line Keys	1
Calls Per Line	24 24
Ring Type	Silent Ring
Outbound Pros	xy
E Server 1	
E Server 2	
🗉 🛛 Call Diversion	
🗉 🛛 Message Cent	er

- **9.** Enter the **Display Name** to be displayed on the dialing page. In this example, enter **1234** as that is the extension that was defined in step 16 of Part III: Adding a Device Entry in Configuring Cisco Unified Communications Manager.
- **10.** Enter the **Address**. In this example, enter **1234** to match the Display Name.

- **11.** Enter the **Authentication User ID**. This is the **User ID** field that was entered as **sstvoipuser** in step 2 of Part II: Adding a Phone User in Configuring Cisco Unified Communications Manager.
- **12.** Enter the **Authentication Password.** This is the **Digest Credentials** value that was entered in step 4 of Part II: Adding a Phone User in Configuring Cisco Unified Communications Manager.
- **13.** Enter the **Label** that will appear on the Phone Settings page within SoundStructure Studio. In this example, enter **1234**. The resulting settings are shown in the following figure.

Line 1				
Identification				
Display Name	1234			
Address	1234			
Authentication User ID	sstvoipuser			
Authentication Password	••••			
Label	1234			
Туре	💿 Private 🛛 🤇) Shared		
Third Party Name				
Number of Line Keys	1			
Calls Per Line	24			
Ring Type	Low Trill	*		

14. Next, expand the **Server 1** control and enter the IP address or hostname of the Cisco Unified Collaborations Manager. In this example the CUCM has an IP address of 172.24.144.119.

172.24.144.119
0
DNSnaptr 💌
3600
💿 Yes i 🔘 No
0
3
30

15. Click **Save** to apply the settings.



16. Navigate to the Channels page in SoundStructure Studio and open the Phone Settings control by clicking on the phone icon. If the line has been successfully registered, the phone icon will appear solid as shown in the following figure.



Troubleshooting the SoundStructure VoIP Interface

This chapter contains general troubleshooting information to help you solve problems you might encounter when using a SoundStructure VoIP Interface in a Cisco® Unified Communications Manager environment.

For detailed information on configuring the SoundStructure VoIP Interface, see the SoundStructure Design Guide.

Review the latest *Release Notes* for the UC Software and for the SoundStructure VoIP Interface for known problems and possible workarounds. For the latest *Release Notes* for the SoundStructure products, go to

http://http://www.polycom.com/support/voice/soundstructure/c_series. html.

Line Registration Issues

If you do not see the registered Line Icon in the Phone Settings UI within SoundStructure Studio, confirm that the Authentication User ID and Authentication Password match the User ID and Digest Password entered when configuring the Cisco Unified Communications Manager.

If the credentials are correct but the SoundStructure VoIP Interface is still not registering, confirm the IP address or hostname of the CUCM.

If the SoundStructure VoIP Interface is still not registering, check the registration status on the Phone configuration page of the CUCM system as shown in the following figure. If the phone is unregistered the system can appear as in the following figure.

of India Cisco Unified CM Administration CISCO For Cisco Unified Communications Solutions								
System 👻 Call Routing 👻 Media Resources 👻 Advanced Features 👻 Device 👻 Application 👻 User Management 👻 Help 👻								
Phone Configuration								
🔚 Save 🗶 Delete 🗈 Copy 🎦 Reset 🥒 Apply Config 🕂 Add New								
Status: Ready								
- Asso	Association Information Modify Button Items I multiple [11-1234 (no partition]							
2	Line [2] - Add a new DN	Device Information	Here side and					
3 4 5	The Line [3] - Add a new DN	Registration IP Address Active Load ID ☑ Device is Active ▲ Device is not trusted	Unregisered 10.240.3.141 Unknown	l≩				
6 7 8	erns: Line [6] - Add a new DN erns erns: Line [7] - Add a new DN erns: Line [8] - Add a new DN	MAC Address* Description Device Pool*	0004F2BF001D Example SST VoIP Interface in Conference Room Default	View [
L		Common Device Configuration Phone Button Template* Common Phone Profile*	< None > Third-party SIP Device (Advanced) Standard Common Phone Profile	 ✓ View [✓ 				

Once the phone is properly registered, the Phone Configuration display will appear as shown in the following figure.

c	Cisco Unified CM / For Cisco Unified Commun	Administration ications Solutions				
Syster	n 👻 Call Routing 👻 Media Resources 🖲	 Advanced Features	👻 User Management 👻 Help 👻			
Phone Configuration						
🔚 Save 🗶 Delete 📔 Copy 🎦 Reset 🥒 Apply Config 🔓 Add New						
Status Status: Ready						
Association Information Modify Button Items 1 mms Line [1 - 1234 (no partition) Charles Information Charles Information Charles Information Charles Information						
2	The Line [2] - Add a new DN	Registration	Registered with Cisco Unified Communications Manag	er IDC-C		
3	The chief of a fiew DN	IP Address Active Load ID	10.240.3.141			
4	The Line [4] - Add a new DN	Device is Active	on known			
5	The Line [5] - Add a new DN	A Device is not trusted				
6	The Line [6] - Add a new DN	MAC Address*	0004F2BF001D			
7	•ma Line [7] - Add a new DN	Description	Example SST VoIP Interface in Conference Room	1		
	267	Device Pool*	Default	View D		
8	The Line [8] - Add a new DN	Common Device Configuration	< None >	View D		
		Phone Button Template*	Third-party SIP Device (Advanced)	·		
		Common Phone Profile*	Standard Common Phone Profile	•		