

Configuring Cisco Unified Communications Manager with Comrex STAC-VIP

WWW. TX.CO.UK



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INTRODUCTION

This guide assumes you are starting with a clean install of Cisco UCM (refer to [1], [2] or [3] for installation details) and a STAC-VIP in its factory-default state. STAC-VIP should be running firmware version 1.1p4 or newer and both CUCM and STAC-VIP Mainframe should have static IP addresses assigned. In this guide we set up a basic lab test scenario which allows calls to be made from hardware IP phones or softphones to STAC-VIP via CUCM. CUCM is a very flexible and complex product; you are encouraged to refer to [4], [5] or [6] and / or your Cisco support contact for assistance in developing the configuration which best suits your requirements.

The officially-supported browsers and operating systems for the CUCM 10 web control panel are as follows:

Internet Explorer 8, Internet Explorer 9 (Windows XP, Windows Vista, Windows 7)

Firefox 4.x, Firefox 10.x (Windows XP, Windows Vista, Windows 7, OSX)

Safari 5.x (OSX)

PRELIMINARY STEPS

Enable All Services on CUCM

a) Browse to the IP address of your CUCM installation and click on Cisco Unified Communications Manager; ignore any errors caused by the server's certificate not being trusted by your browser (in Internet Explorer, click 'Continue to this website (not recommended).').

cisco
Installed Applications
Cisco Unified Communications Manager Oisco Unified Communications Self Care Portal Cisco Prime License Manager
Cryptographic Features
This product contains cryptographic features and is subject to United States and local country laws governing import, export, transfer and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute or use encryption. Importers, exporters, distributors and users are responsible for compliance with U.S. and local country laws. By using this product you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return this product immediately.
A summary of U.S. laws governing Cisco cryptographic products may be found at: http://tools.cisco.com/legal/export/pepd/Search.do
If you require further assistance please contact us by sending email to export@cisco.com.

b) In the Navigation drop-down at the top-right of the screen, select Cisco Unified Serviceability and click Go. Then enter the credentials set up when installing the server in the Username and Password fields and click Login.



c) In the top menu, click Tools, Service Activation. If asked to select a server, choose the CUCM server you wish to configure from the drop-down menu and click Go.

Service /	Activation	
Server*	Server hq-cucm-pubCUCM Voice/Video	✔ Go

d) Check the Check All Services box, click Save and OK in the warning dialog. Wait a few minutes for the 'Loading, please wait.' message to disappear and the page to refresh, at which point all services should show an Activation Status of Activated.

Service Activation							
🔚 Save 🤣 Set to Default 🔇 Refresh							
Status:							
Select Server Server* hq-cucm-pubCUCM Voice/Video V Go I Check All Services							

e) In the Navigation drop-down at the top-right of the screen, select Cisco Unified CM Administration and click Go.

CONNECTING STAC-VIP TO CUCM

Add a Phone Security Profile for STAC-VIP

a) In the top menu, click System, Security, Phone Security Profile. In the 'Find Phone Security Profile where' filter, select Name, begins with, enter 'Third-party' (without quotes) in the empty field and click Find.

cisco	Cisco Unified CM Administration	Navigation Cisco Unified CM Administration	✔ Go
	For cisco onnieu communications solutions	administrator Search Documentation About	Logout
System 👻	Call Routing ▼ Media Resources ▼ Advanced Features ▼ Device ▼ Application ▼	v User Management ▼ Bulk Administration ▼ Help ▼	
Find and	List Phone Security Profiles		
Add N	ew 🔛 Select All 🔛 Clear All 💥 Delete Selected		
- Status -			
(i) 3 red	ords found		
Phone 9	Security Profile (1 - 3 of 3)	Rows per Page 50	\sim
Find Phon	e Security Profile where Name V begins with V Third-party	Find Clear Filter	
	Name [*]	Description	Сору
T	ird-party AS-SIP Endpoint - Standard SIP Non-Secure Profile	Third-party AS-SIP Endpoint - Standard SIP Non-Secure Profile	ß
T	ird-party SIP Device Advanced - Standard SIP Non-Secure Profile	Third-party SIP Device (Advanced) - Standard SIP Non-Secure Profile	ß
T	ird-party SIP Device Basic - Standard SIP Non-Secure Profile	Third-party SIP Device (Basic) - Standard SIP Non-Secure Profile	ß
Add Ne	w Select All Clear All Delete Selected		

- b) Click the Copy icon next to Third-party SIP Device Advanced Standard SIP Non-Secure Profile.
- c) Enter the following information on the Phone Security Profile Configuration screen and click Save. You should see Status: Add successful.

Name: Third-party SIP Device Advanced - Digest Authentication Description: Third-party SIP Device (Advanced) - Digest Authentication Enable Digest Authentication: Checked

CIECO	Unified CM Administration o Unified Communications Solutions					
System - Call Routing	✓ Media Resources ✓ Advanced Features ✓ Device ✓ A	pplication 👻				
Phone Security Profile Configuration						
Save						
Status i Status: Ready						
- Phone Security Pr	ofile Information —					
	Third-party SIP Device (Advanced)					
Device Protocol: Name*	SIP					
Name	hird-party SIP Device Advanced - Digest Authentication					
Description	rd-party SIP Device (Advanced) - Digest Authentication					
Nonce Validity Time*	600					
Transport Type*	TCP+UDP V					
✓ Enable Digest Aut	nentication					
— Parameters used i	n Bhana					
SIP Phone Port* 506						
Save						

Add an End User for STAC-VIP

a) In the top menu, click User Management, End User, then click Add New.

cisco			Administration					Naviga administra		Cisco Unified CM Administ Search Documentation	Co Logout
System 👻	Call Routing 👻	Media Resources	✓ Advanced Features ▼	Device 🔻	Application -	User Manager	ment 👻	Bulk Administration 👻	Help	-	
Find and I	List Users										
🕂 Add N	lew										
User											
Find User	where First n	ame	✓ begins with ✓			Find Clea	r Filter	÷ -			
			No active	query. Plea	ase enter your	search criteria	using th	ne options above.			
Add Net	W										

b) Enter the following information on the End User Configuration screen and click Save. You should see Status: Add successful.

User ID: stacvip

Password: P@ssw0rdOfYourChoice [or any other password of your choice]
Confirm Password: P@ssw0rdOfYourChoice [must match Password]
Last name: STAC-VIP
Digest Credentials: P@ssw0rdOfYourChoice [or any other password of your choice]

Confirm Digest Credentials: P@ssw0rdOfYourChoice [must match Digest Credentials]

C15C0	nified CM Administration Inified Communications Solutions
System 👻 Call Routing 👻	Media Resources • Advanced Features • Device • Application • User Management •
End User Configuration	
Save	
— Status ———	
i Status: Ready	
User Information —	
User Status	Enabled Local User
User ID*	stacvip
Password	•••••
Confirm Password	•••••
Self-Service User ID	
PIN	
Confirm PIN	
Last name*	STAC-VIP
Middle name	
First name	
Title	
Directory URI	
Telephone Number	
Home Number	
Mobile Number	
Pager Number	
Mail ID	
Manager User ID	
Department	
User Locale	< None >
Associated PC	
Digest Credentials	•••••
Confirm Digest Credentia	als
User Profile	Use System Default("Standard (Factory Default) L View Details

Add a Phone for STAC-VIP

a) In the top menu, click Device, Phone, then click Add New.

cisco		Unified CM A	dministration cations Solutions					a	Navi Idminist			o Unified CM Adn earch Documenta		tion About	✓ Go Logout
System 👻	Call Routing	Media Resources 👻	Advanced Features 👻	Device 🔻	Application -	User Manageme	ent 👻	Bulk Admin	istration 👻	Help	-				
Find and I	List Phones	;							Rela	ted Lir	nks:	Actively Logge	d In D	evice Rep	ort 🗸 Go
🕂 Add N	lew														
Phone															
Find Phone	e where Dev	rice Name	✓ begins with	_	t item or enter	Find C	lear F	filter 🚭							
			No active	query. Plea	ase enter your	search criteria u	using t	he options	above.						
Add Net	W														

- b) In the Phone Type drop-down, select Third-party SIP Device (Advanced) and click Next.
- c) Enter the following information on the Phone Configuration screen and click Save, then OK in the dialog prompting you to apply the configuration. You should see Status: Add successful.

MAC Address: This field is actually ignored in our setup and can be any unique 12-digit hex number (0-9, A-F) without punctuation; the actual MAC address of your STAC-VIP mainframe can be determined by running the Comrex Device Manager application [7], clicking Scan for Devices and noting the entry in the MAC Address column alongside STAC-VIP Mainframe Description: STAC-VIP Device Pool: Default Phone Button Template: Third-party SIP Device (Advanced) Owner User ID: stacvip [CUCM 9.1 and above only] Device Security Profile: Third-party SIP Device Advanced - Digest Authentication SIP Profile: Standard SIP Profile Digest User: stacvip

61560	CM Administration			Navigati
For Cisco Unified Co	ommunications Solutions			administrate
rstem ▼ Call Routing ▼ Media Res	ources Advanced Features Device	Application - User I	lanagement 👻	Bulk Administration - H
one Configuration				
Save			_	
Juve				
Status —				
i) Status: Ready				
Phone Type				
Product Type: Third-party Device Protocol: SIP	SIP Device (Advanced)			
Device Information				
Device is not trusted MAC Address*			_	
	0123456789AB			
Description	STAC-VIP			
Device Pool*	Default		View Details	
Common Device Configuration Phone Button Template*	< None >	~		
Common Phone Profile*	Third-party SIP Device (Advance		-	
Common Phone Profile *	Standard Common Phone Profile	~		
Jalling Search Space JAR Calling Search Space	< None >	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	_	
ledia Resource Group List	< None >	~	- -	
.ocation *	<pre>< None > Hub_None</pre>	¥	1	
AR Group	< None >	`	1	
Device Mobility Mode*	Default	•		Device Mobility Settin
Dwner	 User O Anonymous (Public/S) 		view current	Device Mobility Settin
Owner User ID*	stacvip		7	
Jse Trusted Relay Point*	Default	~	1	
Always Use Prime Line*	Default	~	- -]	
Always Use Prime Line for Voice N	lessage* Default	~	1	
Geolocation	< None >	~	1	
Retry Video Call as Audio				
Ignore Presentation Indicators	(internal calls only)			
	(
✓ Logged Into Hunt Group				
✓ Logged Into Hunt Group □ Remote Device				
	prmation			
Remote Device				
Remote Device	s Phone	~		
Remote Device Number Presentation Transfe Caller ID For Calls From Thi Calling Party Transformation CS	s Phone	rom This Phone)		
Remote Device	s Phone S < None >	► rom This Phone)		
Number Presentation Transfo — Caller ID For Calls From Thi Calling Party Transformation CS Vuse Device Pool Calling Party — Remote Number —	s Phone			
Remote Device Number Presentation Transfe Caller ID For Calls From Thi Calling Party Transformation CS Use Device Pool Calling Party Remote Number Calling Party Transformation CS	s PhoneS None > Transformation CSS (Caller ID For Calls Figure 5 S 	~		
Remote Device Number Presentation Transfe Caller ID For Calls From Thi Calling Party Transformation CS Use Device Pool Calling Party Remote Number Calling Party Transformation CS	s Phone	~		
Remote Device Number Presentation Transfor Caller ID For Calls From Thi Calling Party Transformation CS Use Device Pool Calling Party Remote Number Calling Party Transformation CS Use Device Pool Calling Party	s Phone S < None > Transformation CSS (Caller ID For Calls Fi S < None > Transformation CSS (Device Mobility Relat	~		
Remote Device Number Presentation Transfe Caller ID For Calls From Thi Calling Party Transformation CS Guse Device Pool Calling Party Remote Number Calling Party Transformation CS Guse Device Pool Calling Party Protocol Specific Information	s Phone S < None > Transformation CSS (Caller ID For Calls Fi S < None > Transformation CSS (Device Mobility Relat	~		
Remote Device Number Presentation Transfe Caller ID For Calls From Thi Calling Party Transformation CS Guse Device Pool Calling Party Remote Number Calling Party Transformation CS Guse Device Pool Calling Party Protocol Specific Information BLF Presence Group*	s Phone S <pre>< None > Transformation CSS (Caller ID For Calls Find S <pre></pre> <pre>S <pre>< None > Transformation CSS (Device Mobility Related) </pre> Standard Presence group</pre></pre>	ed Information)		
Remote Device Number Presentation Transfe Calling Party Transformation CS Remote Number Calling Party Transformation CS Vuse Device Pool Calling Party Protocol Specific Information BLF Presence Group* MTP Preferred Originating Codec*	s Phone	ed Information)		
Remote Device Number Presentation Transfe Calling Party Transformation CS Remote Number Calling Party Transformation CS Vuse Device Pool Calling Party Protocol Specific Information BLF Presence Group* MTP Preferred Originating Codec* Device Security Profile*	s Phone	ed Information)		
Remote Device Number Presentation Transfe Calling Party Transformation CS Remote Number Calling Party Transformation CS Vuse Device Pool Calling Party Protocol Specific Information BLF Presence Group* MTP Preferred Originating Codec* Device Security Profile* Rerouting Calling Search Space	s Phone S < None > Transformation CSS (Caller ID For Calls Fi S < None > Transformation CSS (Device Mobility Relat Standard Presence group 711ulaw Third-party SIP Device Advanced - Digest < None >	ed Information)		
Remote Device Number Presentation Transfer Calling Party Transformation CS Calling Party Transformation CS Calling Party Transformation CS Calling Party Transformation CS Vuse Device Pool Calling Party Protocol Specific Information F Presence Group* MTP Preferred Originating Codec* Device Security Profile* Rerouting Calling Search Space SUBSCRIBE Calling Search Space	s Phone S < None > Transformation CSS (Caller ID For Calls Fi S < None > Transformation CSS (Device Mobility Relat Standard Presence group 711ulaw Third-party SIP Device Advanced - Digest < None >	ed Information)	etails	
Remote Device Number Presentation Transfer Calling Party Transformation CS Remote Number Calling Party Transformation CS Vuse Device Pool Calling Party Protocol Specific Information Protocol Specific Information Protecred Originating Codec* Device Security Profile* Rerouting Calling Search Space SUBSCRIBE Calling Search Space SIP Profile*	s Phone	ed Information)	etails	
Remote Device Number Presentation Transfer Calling Party Transformation CS Device Pool Calling Party Protocol Specific Information EF Presence Group* MTP Preferred Originating Codec* Device Security Profile* Rerouting Calling Search Space SIP Profile* Digest User	s Phone	ed Information)	etails	
Remote Device Number Presentation Transfer Calling Party Transformation CS Device Pool Calling Party Protocol Specific Information EF Presence Group* MTP Preferred Originating Codec* Device Security Profile* Rerouting Calling Search Space SIP Profile* Digest User	s Phone	ed Information)	etails	
Remote Device Number Presentation Transfer Calling Party Transformation CS Protocol Specific Information Protecol Specific Information Protocol Specific Information Protocol Specific Information Protecol Specific Information Protocol Specific Information Pro	s Phone	ed Information)	etails	
Remote Device Number Presentation Transformation CS Calling Party Transformation CS Protocol Specific Information Protocol Specific Informati	s Phone	ed Information)	etails	
Remote Device Number Presentation Transfer Caller ID For Calls From Thi Calling Party Transformation CS Protocol Specific Information Protoco	s Phone	ed Information)	etails	
Remote Device Number Presentation Transformation CS Calling Party Transformation CS Protocol Specific Information Protocol Specific Informati	s Phone	ed Information)	etails	
Remote Device Number Presentation Transfer Calling Party Transformation CS Use Device Pool Calling Party Remote Number Calling Party Transformation CS Protocol Specific Information Protecred Originating Codec* Protocol Specific Information Preferred Originating Codec* NTP Preferred Originating Codec* Device Security Profile* Rerouting Calling Search Space SUBSCRIBE Calling Search Space SIP Profile* Digest User Media Termination Point Requi Unattended Port Require DTMF Reception Allow Presentation Sharing usi Allow iX Applicable Media HLPP and Confidential Access	s Phone	ed Information)	etails	
Remote Device Number Presentation Transfe Callier ID For Calls From Thi Calling Party Transformation CS Calling Party Transformation CS Remote Number Calling Party Transformation CS Protocol Specific Information BLF Presence Group* MTP Preferred Originating Codec* Device Security Profile* Rerouting Calling Search Space SUBSCRIBE Calling Search Space SIP Profile* Digest User Media Termination Point Requi Unattended Port Require DTMF Reception Allow Presentation Sharing usi Allow ix Applicable Media MLPP And Confidential Access	s Phone	ed Information)	etails	
Remote Device Number Presentation Transfer Calling Party Transformation CS Culling Party Transformation CS Remote Number Calling Party Transformation CS Protocol Specific Information Protocol Specific Information Protece Scurity Profile* Rerouting Calling Search Space SUBSCRIBE Calling Search Space SUSPCRIBE Calling Search Space SUSPCRIBE Calling Search Space I media Termination Point Requi Unattended Port Require DTMF Reception Allow Presentation Sharing usi Allow ix Applicable Media MLPP and Confidential Access	s Phone	ed Information)	etails	

Save

Add a Directory Number (DN) for STAC-VIP

a) In the Association Information panel on the left of the screen, click Line [1] - Add a new DN.

	Cisco Unified CM
Syste	em 👻 Call Routing 👻 Media Resource
Phor	e Configuration
	Save 🗙 Delete 🗋 Copy 😭
i	itus Add successful
- As	Sociation Modify Button Items
1	Line [1] - Add a new DN
2	Line [2] - Add a new DN
3	•7715 Line [3] - Add a new DN
4	Line [4] - Add a new DN
5	The Line [5] - Add a new DN
6	Line [6] - Add a new DN
7	Line [7] - Add a new DN
8	<u>Eine [8] - Add a new DN</u>

 b) Enter the following information on the Directory Number Configuration screen and click Save.
 You should see a new Associated Devices list appear with a single entry representing the STAC-VIP which you have just added.

Directory Number: 100 [or any other convenient unused extension number] Description: STAC-VIP Maximum Number of Calls: 16 Busy Trigger: 16

	CICCO.	ed CM Administration		Navigation
1	For Cisco Unifie	d Communications Solutions		administrator
	System - Call Routing - Medi	a Resources 👻 Advanced Features 👻	Device Application	✓ User Management ✓ Bulk Administration ✓ Help
	Directory Number Configur	ation		Related Links:
	Save			
1				
	Status Directory Number Config	uration has refreshed due to a directo	ery number change. F	Please click Save button to save the configuration.
ļ	- Directory Number Inform	ation		
		.00		Urgent Priority
	Route Partition	< None >	~	
	Description	STAC-VIP		
	Alerting Name			
	ASCII Alerting Name			
	External Call Control Profile	< None >		
	✓ Active			
ĺ				
1	 Directory Number Setting Voice Mail Profile 	< None >	~	(Choose <none> to use system default)</none>
	Calling Search Space	< None >	~	(Choose < None> to use system default)
	BLF Presence Group*	Standard Presence group	~	
	User Hold MOH Audio Source	< None >	~	
	Network Hold MOH Audio Source		¥	
	_	<pre>> _ None ></pre>	*	1
	Reject Anonymous Calls			

- Line 1 on Device SE	P0123456789AB						
Display (Caller ID)	er ID) Display text for a line appearance is intended for displaying text such as a name instead of						
	directory number for calls. If you specify a number, the person receiving a call may not see the proper identity of the caller.						
ASCII Display (Caller ID)							
External Phone Number Mask							
Monitoring Calling Search Space	< None >	~					
bear of opuce							
	Yaiting Settings on Device SEP(ct the Max Number of calls is: 1-16 calls [*]] (Less than or equal to Max. Calls)			
- Forwarded Call Info	ormation Display on Device SE	0123456789AB					
✓ Caller Name	ormation Display on Device Sc	-0123430783AD					
Caller Number							
Redirected Number							
✓ Dialed Number							
Save							

c) Finally, click Apply Config and OK in the popup window which appears.

Register STAC-VIP to CUCM

- a) It should now be possible to register your STAC-VIP to CUCM. Browse to the IP address of your STAC-VIP Mainframe, log in, click Configure and log in again. Click Line Configuration, VoIP Providers, Add Provider, SIP Provider.
- b) On the SIP Provider screen, click each of the following settings, enter the appropriate value and click Save Setting each time.

Name: CUCM Account username: 100 [must match Directory Number associated with STAC-VIP Phone on CUCM above] Account password: P@ssw0rdOfYourChoice [must match Digest Credentials associated with STAC-VIP End User on CUCM above] Server/Realm: <IP address of CUCM installation>

 c) Click Show Advanced, click each of the following settings, enter the appropriate value and click Save Setting each time. Note that the SIP Port setting is assigned automatically and should not be changed from its default value.

Auth Username: stacvip Codec Priority: No ISAC or Opus [G.722 > G.711 > G.729] INVITE SDP Compatibility: On

< Back

COMREX

CUCM

Apply Changes Delete

SIP provider allowing STAC VIP to manage one or more VoIP calls simultaneously.

Initializing Changes to this provider must be applied to take effect.

General Settings

Name	CUCM
Network Port Binding	Primary
Color Code	Blue
SIP Provider	Generic SIP Pr

Account Information

Account username	100
Account password	*****
Auth Username	stacvip

Codec Settings

Codec Priority	No ISAC or Op
Codec Fairness	Fair Negotiation

SIP Settings

Outgoing Caller ID Name	
Outgoing Caller ID Number	
Provider Binding Port	5081
Server/Realm	10.10.20.1
Proxy Address	
Outbound Proxy Address	
Registration Proxy Address	
From Username	
From Domain	
Expire time	3600 seconds
Retry time	60 seconds
Register	Yes
Register Transport	UDP
INVITE SDP Compatibility	On
INVITE Contact Compatibility	Off

Extra Settings

Outgoing Enabled	Yes
Transfer Enabled	No
Transfer Domain	
Destination Match	
Hide Advanced	

d) Click Apply Changes then Back, or Back, then Restart (Apply Changes) and OK in the confirmation dialog. You should see the status of the newly-added CUCM provider change to Registered.



e) Click Back, then Line Assignments. Click each line which you wish to be associated with the CUCM Directory Number (100 in the example above), select CUCM from the Provider assignment drop-down and click Save Setting.

< Back		COMREX
	Assignments VoIP Providers to STAC VIP lines.	

Line 1	Not Assigned
Line 2	CUCM
Line 3	CUCM
Line 4	CUCM
Line 5	CUCM
Line 6	CUCM
Line 7	CUCM
Line 8	CUCM
Line 9	CUCM
Line 10	CUCM
Line 11	CUCM
Line 12	CUCM

f) The association of STAC-VIP to CUCM is now complete. If you already have software or hardware phones registered to CUCM, you should be able to call into STAC-VIP by dialling the Directory Number associated with it (100 in the example above). If not, continue with this guide to add a softphone account for testing.

CONNECTING A SOFTPHONE TO CUCM

Add a Phone Security Profile for the Softphone

- a) Return to the CUCM administration page by entering the IP address of the CUCM installation, clicking Cisco Unified Communications Manager, ensuring Cisco Unified CM Administration is selected in the Navigation drop-down at the top-right of the screen (if not, select it and click Go) and logging if necessary.
- b) In the top menu, click System, Security, Phone Security Profile. In the 'Find Phone Security Profile where' filter, select Name, begins with, enter 'Third-party' (without quotes) in the empty field and click Find.

	o Unified CM A	Administration				Na	vigation	Cisco Unified CN	4 Administra	ation	✔ Go
CISCO For C	isco Unified Commun	ications Solutions				adminis	trator	Search Docur	mentation	About	Logout
System 👻 Call Rout	ing 👻 Media Resources 🤜	Advanced Features 👻	Device 🔻	Application \bullet	User Management 👻	Bulk Administration		•			
Find and List Pho	ne Security Profiles										
Add New	Select All Clear All	Delete Selected									
Status	nd										
Phone Security Profile (1 - 4 of 4) Rows per Page 50 V									Rows p	per Page 5	
Find Phone Securit	y Profile where Name	✓ begins with ✓	Third-part	у	Find Clear Filter	· + -					
Find Phone Securit	y Profile where Name	✓ begins with ✓ Name [▲]	Third-part	У	Find Clear Filter		Descriptio	n			Сору
	y Profile where Name	Name [▲]		ý	Find Clear Filter				e		Сору
Third-party	·	Name A		У		Endpoint - Standa	ard SIP No	n-Secure Profil	e		
Third-party	AS-SIP Endpoint - Stan	Name A Idard SIP Non-Secure Pro- Digest Authentication	rofile	ý	Third-party AS-SIP	Endpoint - Standa vice (Advanced) -	ard SIP No Digest Au	n-Secure Profile thentication			6
Third-parts	AS-SIP Endpoint - Stan	Name Address Standard SIP Non-Secure Process Authentication Standard SIP Non-Secure Process Standard SIP Non-Secure Standard Standard SIP Non-Secure Standard Standar	rofile ure Profile	À	Third-party AS-SIP Third-party SIP De	Endpoint - Standa vice (Advanced) - vice (Advanced) -	ard SIP No Digest Au Standard	n-Secure Profile thentication SIP Non-Secure	e Profile		ß ß

- c) Click the Copy icon next to Third-party SIP Device Basic Standard SIP Non-Secure Profile.
- d) Enter the following information on the Phone Security Profile Configuration screen and click Save. You should see Status: Add successful.

Name: Third-party SIP Device Basic - Digest Authentication Description: Third-party SIP Device (Basic) - Digest Authentication Enable Digest Authentication: Checked

CICCO.	Unified CM Administration o Unified Communications Solutions	
System - Call Routing	✓ Media Resources ✓ Advanced Features ✓ Device ✓	Application +
Phone Security Pro	ile Configuration	
Save		
Status Status: Ready		
— Phone Security Pr		
Product Type:	Third-party SIP Device (Basic) SIP	
Name*	Third-party SIP Device Basic - Digest Authentication	
Description	Third-party SIP Device (Basic) - Digest Authentication	
Nonce Validity Time*	600	
Transport Type*	TCP+UDP V	
☑ Enable Digest Aut	nentication	
— Parameters used i	n Phone	
SIP Phone Port* 506		
Save		
Save		

Add an End User for the Softphone

a) In the top menu, click User Management, End User, then click Add New.

cisco			dministration cations Solutions				Navigatior administrator	Cisco Unified CM Administ	Go Logout
System 👻	Call Routing 👻	Media Resources 🔻	Advanced Features 👻	Device 👻	Application -	User Management 👻			
Find and	List Users								
🕂 Add N	lew								
User									
Find User	where First n	ame	✓ begins with ✓			Find Clear Filter			
			No active	query. Plea	se enter your	search criteria using	the options above.		
Add Ne	W								

b) Enter the following information on the End User Configuration screen and click Save. You should see Status: Add successful.

User ID: softphone1

Password: S3cr3tW0rd [or any other password of your choice]
Confirm Password: S3cr3tW0rd [must match Password]
Last name: Softphone 1
Digest Credentials: S3cr3tW0rd [or any other password of your choice]

Confirm Digest Credentials: S3cr3tW0rd [must match Digest Credentials]

01500	ified CM Administration ified Communications Solutions	
System - Call Routing - M	ledia Resources 👻 Advanced Features 👻 Device 👻 Appl	ication 👻 User Management 👻
End User Configuration		
Save		
— Status —		
i Status: Ready		
User Information —		
User Status	Enabled Local User	
User ID*	softphone1	
Password	•••••]
Confirm Password	•••••	
Self-Service User ID		7
PIN		7
Confirm PIN		7
Last name*	Softphone 1	7
Middle name		7
First name		1
Title		
Directory URI]
Telephone Number		_ 7
Home Number		
Mobile Number		
Pager Number		
Mail ID		
Manager User ID		
-		
Department		
User Locale	< None >	_
Associated PC		
Digest Credentials	•••••	
Confirm Digest Credentials	• • • • • • • • •	
User Profile	Use System Default("Standard (Factory Default) L 🗸	View Details

Add a Phone for the Softphone

a) In the top menu, click Device, Phone, then click Add New.

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No active query. Please enter your search criteria using the options above.													
Add Ne	W												

- b) In the Phone Type drop-down, select Third-party SIP Device (Basic) and click Next.
- c) Enter the following information on the Phone Configuration screen and click Save, then OK in the dialog prompting you to apply the configuration. You should see Status: Add successful.

MAC Address: This field is actually ignored in our setup and can be any unique 12-digit hex number (0-9, A-F) without punctuation; the actual MAC address of the computer on which you will run the softphone can be determined by pressing Windows+R, typing cmd <enter>, then typing ipconfig /all <enter> and noting the Physical Address for the network connection currently in use Description: Softphone 1 Device Pool: Default Phone Button Template: Third-party SIP Device (Basic) Owner User ID: softphone1 [CUCM 9.1 and above only] Device Security Profile: Third-party SIP Device Basic - Digest Authentication SIP Profile: Standard SIP Profile Digest User: softphone1

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Device is not trusted AC Address*						-		
Description		FEDCBA987654						
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Add a Directory Number (DN) for the Softphone

a) In the Association Information panel on the left of the screen, click Line [1] - Add a new DN.

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System 👻 🕻	Call Routing 👻 Media Resource:					
Phone Conf	figuration					
Save	🗙 Delete 📔 Copy 🎦					
Status Add successful						
Association Modify Button Items						
	ne [1] - Add a new DN					

b) Enter the following information on the Directory Number Configuration screen and click Save.
 You should see a new Associated Devices list appear with a single entry representing the softphone which you have just added.

Directory Number: 101 [or any other convenient unused extension number] **Description:** Softphone 1

	fied CM Administration			Navigatio
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System - Call Routing - Mee	dia Resources 👻 Advanced Features 💌	Device - Applicatio	n 👻 User Management 👻	Bulk Administration 👻 He
Directory Number Configu	ration			Related Links:
Save				
- Status				
	guration has refreshed due to a direct	ory number change.	Please click Save button	to save the configuration
— Directory Number Inforn	nation			
	101		Urgent Priority	
Route Partition	< None >	~		
Description	Softphone 1			
Alerting Name				
ASCII Alerting Name				
External Call Control Profile	< None >	~		
✓ Active				
– Directory Number Settin	05			
Voice Mail Profile	< None >	~	(Choose <none> to us</none>	e system default)
Calling Search Space	< None >	~		
BLF Presence Group*	Standard Presence group	~	1	
User Hold MOH Audio Source	< None >	~	1	
Network Hold MOH Audio Sou	rce < None >	~	1	
Reject Anonymous Calls				

c) Finally, click Apply Config and OK in the popup window which appears.

Register the Softphone to CUCM

a) It should now be possible to register a softphone to CUCM. For this example we will use the free PhonerLite application. Download the application from <u>http://www.phoner.de/PhonerLite.zip</u>, extract the contents of the zip file and run PhonerLite.exe (no installation is required). A wizard will appear prompting you to enter the details of your SIP server. Ensure manual configuration is selected in the list on the left and enter the following information, clicking the green 'next' arrow to confirm each page and the green tick to finish. In the status bar at the bottom of the PhonerLite window you should see a green light and a message that it has registered to the CUCM server.

Proxy/Registrar: <IP address of CUCM installation>

User name: 101 [must match Directory Number associated with softphone Phone on CUCM above]

Authentication name: softphone1

Password: S3cr3tW0rd [must match Digest Credentials associated with softphone End User on CUCM above]

'with the profile name': CUCM

Setup Wizard ×							
Provider Provider							
Image: SiPgate Imaget	Proxy/Registrar 10.10.20.1						
Setup	Wizard						
User data							
User name 101 101@10.10.20.1 Password •••••••	Authentication name softphone1						
Setup	Wizard						
Confirm							
Created account: 101@10.10.20.1 with the profile name CUCM							

b) Click the Configuration tab, then the Codecs tab, scroll down in the list of codecs to find G.722
 WB, select it and use the up arrow to move it to the top of the list. Then uncheck all codecs in the list except G.722 WB, G.711 A-Law and G.711 u-Law. Click Save.

8	Phone	erLite	-	□ ×						
Action Options Help										
C 👝 🖄 🌲 🏔	C 🗝 🕘 🗍 🍇 📌 🔗 🔔 😔									
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Speex WB, 30 k G.726-16, 16 k										
	sip:101@10.10.2).1 registered								

c) In the Destination number field, enter 100 (or whichever Directory Number you associated with STAC-VIP on CUCM above) and press Enter. STAC-VIP should indicate an incoming call on the first of the lines associated with CUCM. Answer the call by putting it on air to confirm that everything is working as expected.



d) To test the conferencing of multiple calls on STAC-VIP via CUCM, repeat the following steps using a different PC as the softphone client:

Add an End User for the Softphone (using a different User ID and Last name) Add a Phone for the Softphone (using a different MAC Address, Description, Owner User ID [CUCM 9.1 and above only] and Digest User)

Add a Directory Number (DN) for the Softphone (using a different Directory Number and Description)

Register the Softphone to CUCM (using the different User name and Authentication name)

NOTES

- Each Third-party SIP Device configured in CUCM requires a different Digest User, so a different End User must be set up for each, as we have done above.
- The crucial difference between CUCM's Basic and Advanced Third-party SIP Device is that the former allows a maximum of two concurrent calls, while the latter allows up to 16. It is for this reason that the Advanced version has to be used for STAC-VIP. Note that the Basic Device consumes three Device Licence Units and the Advanced Device consumes six Device Licence Units.
- If you wish to register to the server a SIP device which does not provide support for separate username and authentication user, the User ID of the End User (which is selected as the Digest User in the Phone Configuration screen) can be made the same as the Directory Number assigned to the device.
- If you wish to associate a caller ID name with the STAC-VIP or a softphone to be displayed to the callee, you should configure this on CUCM. In the top menu, click Device, Phone. In the 'Find Phone where' filter, select Description, begins with, enter the description set on the STAC-VIP / relevant softphone in the empty field and click Find. Click the link in the Device Name(Line) column, then in the Association Information panel on the left of the screen, click Line [1] Enter the name in the Display (Caller ID) [CUCM 10.5] or Display (Internal Caller ID) [CUCM 9.1 and below] field on the Directory Number Configuration screen in the 'Line 1 on Device SEP...' section. Click Save, then Apply Config and OK in the popup window which appears.

Line 1 on Device SEP012345678	9AB	
Display (Caller ID)		Display text
ASCII Display (Caller ID)]
External Phone Number Mask]
Monitoring Calling Search Space	< None >	

• [CUCM 9.1 and below only]

If you wish to associate a caller ID number with the STAC-VIP to be displayed to the callee, you should configure this on the STAC-VIP. Browse to the IP address of your STAC-VIP Mainframe, log in, click Configure and log in again. Click Line Configuration, VoIP Providers, CUCM, Show Advanced, Outgoing Caller ID Number, enter the number and click Save Setting. Note that the Outgoing Caller ID Name setting does not apply for registrations to CUCM (it is overridden by the Display (Internal Caller ID) setting in CUCM; see above). Click Back, then Restart (Apply Changes) and OK in the confirmation dialog.

SIP Settings



• To associate different Directory Numbers with different lines on the STAC-VIP, repeat the following sections:

Add an End User for STAC-VIP (using a different User ID and Last name) Add a Phone for STAC-VIP (using a different MAC Address, Description, Owner User ID [CUCM 9.1 and above only] and Digest User) Add a Directory Number (DN) for STAC-VIP (using a different Directory Number and Description) Register STAC-VIP to CUCM (using a different Name, the different Account username and Auth Username and different lines for the new Provider in Line Assignments)

We have configured CUCM to authenticate the SIP devices above (STAC-VIP and softphones) using a username and password. CUCM's default behaviour, however, is not to check the password, since Cisco proprietary IP phones send their MAC address when registering and this is validated by the server. If security is of no concern, when configuring STAC-VIP on CUCM, you can omit the creation of a secure SIP profile (the entirety of the Add a Phone Security Profile for STAC-VIP section), omit Digest Credentials and Confirm Digest Credentials in the Add an End User for STAC-VIP section and use Device Security Profile: Third-party SIP Device Advanced - Standard SIP Non-Secure Profile in the Add a Phone for STAC-VIP section. Any value can then be used for the STAC-VIP Account password setting in the Register STAC-VIP to CUCM section (but note that STAC-VIP will fail to register unless some value is entered).

Similarly, when configuring the softphone on CUCM, you can omit the creation of a secure SIP profile (the entirety of the Add a Phone Security Profile for the Softphone section), omit Digest Credentials and Confirm Digest Credentials in the Add an End User for the Softphone section and use Device Security Profile: Third-party SIP Device Basic - Standard SIP Non-Secure Profile in the Add a Phone for the Softphone section. Any value can then be used for the PhonerLite Password setting in the Register the Softphone to CUCM section (but note that PhonerLite will fail to register unless some value is entered).

 Occasionally, after clicking Apply Config and OK on the Directory Number Configuration screen for either STAC-VIP or a softphone, the device whose configuration has been changed will not be able to make a call via CUCM - the call will proceed to the SIP 'ringing' stage and then be cleared around half a second later by the server, which reports the problem as 'Temporary failure'. The solution is simply to wait a couple of minutes and retry.

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