

Cox SIP Trunking:

Cisco Unified Communications Manager 11.0.1 with Cisco Unified Border Element (CUBE 11.5.0) on ISR4321 [IOS-XE 3.17] using SIP

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Introduction

Service Providers today, such as Cox, are offering alternative methods to connect to the PSTN via their IP network. Most of these services utilize SIP as the primary signaling method and centralized IP to TDM POP gateways to provide on-net and off-net services.

Cox is a service provider that allows connection to the PSTN and may offer the end customer a viable alternative to traditional PSTN connectivity. A demarcation device between these services and customer owned services is recommended. As an intermediary device between Cisco Unified Communications Manager and Cox Session Border Controller (EdgeMarc), Cisco Unified Border Element (CUBE 11.5.0) on ISR 4321 with IOS-XE 3.17 can be used. The Cisco Unified Border Element provides demarcation, security, interworking and session control services for Cisco Unified Communications Manager 11.0.1 connected to Cox IP network.

This document assumes the reader is knowledgeable with the terminology and configuration of CUCM (Cisco Unified Communications Manager). Only configuration settings specifically required for Cox interoperability are presented. Feature configuration, and most importantly the dial plan, are customer specific and need an individual approach.

- This application note describes how to configure a Cisco Unified Communications Manager (Cisco UCM) 11.0.1 and Cisco Unified Border Element (CUBE 11.5.0) on ISR 4321 for connectivity to Cox SIP Trunking service. The deployment model covered in this application note is CPE (Cisco UCM 11.0.1) to PSTN (Cox).
- Testing was performed in accordance to Cox generic SIP Trunking test methodology and among features verified were – basic calls, DTMF transport, Music on Hold, Semi-attendant and attendant transfers, call forward, conferences, and interoperability with Cisco Unity Connection
- The CUCM configuration detailed in this document is based on a lab environment with a simple dial-plan used to ensure proper interoperability between Cox SIP network and Cisco Unified Communications. The configuration described in this document details the important configuration settings to have enabled for interoperability to be successful and care must be taken by the network administrator deploying Cisco UCM to interoperate to Cox SIP trunking network.

This application note does not cover the use of Calling Search Spaces (CSS) or partitions on Cisco Unified Communications Manager. To understand and learn how to apply CSS and partitions refer to the cisco.com link below:

http://www.cisco.com/en/US/docs/voice ip comm/cucm/srnd/collab09/dialplan.html#wpmkr1044275



Network Topology

Basic Call Setup

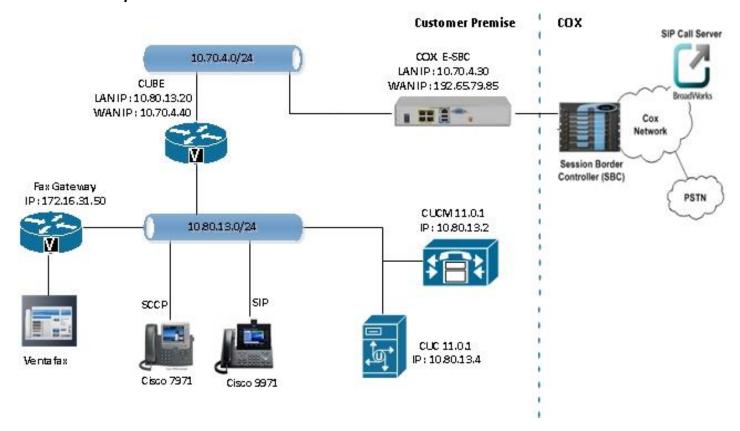


Figure 1: Network Topology



System Components

Hardware Components

- Cisco UCM and Unity Connection run on VMware
- ISR 2851 router as Fax Gateway
- ISR 4321 router as CUBE
- IP phones 9971(SIP) and 7971(SCCP)

Software Requirements

- Cisco Unified Communications Manager 11.0.1
- IOS-15.6(1)S for Cisco Unified Border Element on ISR4321
- IOS 15.1(4)M5 for Fax Gateways on ISR2851
- Cisco Unity Connection 11.0.1

Features Supported

- Incoming and outgoing off-net calls using G711Ulaw (Cox only offer G711Ulaw) with 20ms packetization
- Call hold
- Call transfer (Semi-Attendant and Attendant)
- Call conference
- Call forward (all, busy, no answer)
- Calling line (number) identification presentation (CLIP)
- Calling line (number) identification restriction (CLIR)
- DTMF (RFC2833)
- Media flow-through on CUBE
- Fax G.711 pass-through

Features Not Supported

- Outbound SIP REFER with Replaces. Cisco UCM does not currently support generation of an outbound SIP REFER with Replaces
- Cisco IP phones used in this test do not support Blind Transfer, only Semi-attendant and Attendant transfers were tested

Caveats

- The caller ID of the DUT is being seen instead of the originator of the call that is transferred or forwarded
- Defect ID: PAI/PPI support for INVITE/UPDATE Request/Response in CUBE CSCuv04539



Configuration

Configuring the Cisco Unified Border Element

Network Interface

Configure Ethernet IP address and sub interface. The IP address and VLAN encapsulation used are for illustration purposes only and the actual IP address can vary. For SIP trunks, two IP addresses must be configured—LAN and WAN.

interface GigabitEthernet0/0/0
description COX CUBE LAN
ip address 10.80.13.20 255.255.255.0
negotiation auto
!
interface GigabitEthernet0/0/1
description COX CUBE WAN
ip address 10.70.4.40 255.255.255.0
negotiation auto

Global CUBE Settings

In order to enable CUBE IP2IP gateway functionality, following command has to be entered:

voice service voip
no ip address trusted authenticate
address-hiding
mode border-element
allow-connections sip to sip
no supplementary-service sip handle-replaces
fax protocol pass-through g711ulaw
sip
session refresh
asserted-id pai
early-offer forced



midcall-signaling passthru privacy-policy passthru privacy-policy send-always g729 annexb-all

Explanation

Command	Description
allow-connections sip to sip	Allow IP2IP connections between two SIP call legs
fax protocol	Specifies the fax protocol
asserted-id	Specifies the type of privacy header in the outgoing SIP requests and response messages
early-offer forced	Enables SIP Delayed-Offer to Early-Offer globally
midcall-signaling passthru	Passes SIP messages from one IP leg to another IP leg

Media Passing Through CUBE (media flow-through vs. media flow-around)

Default CUBE configuration enables CUBE to work in flow-through mode (this test use flow-through mode). In order to enable flow-around mode, please perform the following actions:

voice service voip

media flow-around

Codecs

Cox offer only G.711ulaw codec for voice call, it allows codecs other than G.711ulaw but will only accept G.711ulaw.

For customers using **G.711 ulaw** codec:

voice class codec 1

codec preference 1 g711ulaw



Dial Peer

```
CUCM uses dial-peer to route the call based on the digit to route the call accordingly.
dial-peer voice 20 voip
description "Incoming to IP-PBX - IP-PBX facing side "
destination-pattern 402614....
no modem passthrough
session protocol sipv2
session target ipv4:10.80.13.2:5060
voice-class codec 1
voice-class sip asymmetric payload full
voice-class sip asserted-id pai
voice-class sip privacy-policy passthru
voice-class sip early-offer forced
voice-class sip bind control source-interface GigabitEthernet0/0/0
voice-class sip bind media source-interface GigabitEthernet0/0/0
dtmf-relay rtp-nte
fax-relay ecm disable
fax rate disable
fax protocol pass-through g711ulaw
no vad
dial-peer voice 21 voip
description " Incoming IP-PBX - EdgeMarc facing side "
no modem passthrough
session protocol sipv2
incoming called-number 402614....
voice-class codec 1
voice-class sip asymmetric payload full
voice-class sip asserted-id pai
```



```
voice-class sip privacy-policy passthru
voice-class sip bind control source-interface GigabitEthernet0/0/1
voice-class sip bind media source-interface GigabitEthernet0/0/1
dtmf-relay rtp-nte
fax-relay ecm disable
fax rate disable
fax protocol pass-through g711ulaw
no vad
dial-peer voice 15 voip
description "Outgoing To EdgeMarc" -EdgeMarc facing side
destination-pattern [0-9]T
no modem passthrough
session protocol sipv2
session target ipv4:10.70.4.30:5060
voice-class codec 1
voice-class sip asymmetric payload full
voice-class sip asserted-id pai
voice-class sip privacy-policy passthru
voice-class sip early-offer forced
voice-class sip profiles 1
voice-class sip bind control source-interface GigabitEthernet0/0/1
voice-class sip bind media source-interface GigabitEthernet0/0/1
dtmf-relay rtp-nte
fax-relay ecm disable
fax rate disable
fax protocol pass-through g711ulaw
no vad
```



dial-peer voice 16 voip

description "Outgoing To EdgeMarc" -IP PBX facing side"

no modem passthrough

session protocol sipv2

incoming called-number [0-9]T

voice-class codec 1

voice-class sip asymmetric payload full

voice-class sip asserted-id pai

voice-class sip privacy-policy passthru

voice-class sip profiles 1

voice-class sip bind control source-interface GigabitEthernet0/0/0

voice-class sip bind media source-interface GigabitEthernet0/0/0

dtmf-relay rtp-nte

fax-relay ecm disable

fax rate disable

fax protocol pass-through g711ulaw

no vad



ISR Configuration

The following configuration snippet contains a sample configuration of Cisco Unified Border Element with all parameters mentioned previously.

COX_CUBE#sh running-config Building configuration... version 15.6 service timestamps debug datetime msec service timestamps log datetime msec no platform punt-keepalive disable-kernel-core hostname COX_CUBE boot-start-marker boot system flash:isr4300-universalk9.03.17.00.S.156-1.S-std.SPA.bin boot system bootflash:isr4300-universalk9.03.17.00.S.156-1.S-std.SPA.bin boot-end-marker Ţ vrf definition Mgmt-intf ! address-family ipv4 exit-address-family ! address-family ipv6 exit-address-family no aaa new-model no ip domain lookup ip domain name tekvizion.com



```
!
subscriber templating
multilink bundle-name authenticated
voice service voip
no ip address trusted authenticate
address-hiding
mode border-element license capacity 50
allow-connections sip to sip
no supplementary-service sip handle-replaces
fax protocol pass-through g711ulaw
sip
 session refresh
 asserted-id pai
 early-offer forced
 midcall-signaling passthru
 privacy-policy passthru
 privacy-policy send-always
 g729 annexb-all
voice class codec 1
codec preference 1 g711ulaw
voice class sip-profiles 1
request INVITE sip-header Diversion modify "<sip:(.*)@(.*)>" "<sip:402614\1@\2>"
license udi pid ISR4321/K9 sn FDO17860MW3
license boot level appxk9
license boot level uck9
```



```
!
spanning-tree extend system-id
redundancy
mode none
vlan internal allocation policy ascending
interface GigabitEthernet0/0/0
description Cox CUBE LAN
ip address 10.80.13.20 255.255.255.0
negotiation auto
interface GigabitEthernet0/0/1
description COX CUBE WAN
ip address 10.70.4.40 255.255.255.0
negotiation auto
interface GigabitEthernet0
vrf forwarding Mgmt-intf
no ip address
negotiation auto
interface Vlan1
no ip address
shutdown
ip forward-protocol nd
no ip http server
```



```
no ip http secure-server
ip tftp source-interface GigabitEthernet0
ip route 0.0.0.0 0.0.0.0 10.70.52.1
ip route 10.64.0.0 255.255.0.0 10.80.13.1
ip route 172.16.0.0 255.255.0.0 10.80.13.1
control-plane
mgcp behavior rsip-range tgcp-only
mgcp behavior comedia-role none
mgcp behavior comedia-check-media-src disable
mgcp behavior comedia-sdp-force disable
mgcp profile default
dial-peer voice 20 voip
description " Incoming to IP-PBX - IP-PBX facing side "
destination-pattern 402614....
session protocol sipv2
session target ipv4:10.80.13.2:5060
voice-class codec 1
voice-class sip asymmetric payload full
voice-class sip asserted-id pai
voice-class sip privacy-policy passthru
voice-class sip early-offer forced
voice-class sip bind control source-interface GigabitEthernet0/0/0
voice-class sip bind media source-interface GigabitEthernet0/0/0
dtmf-relay rtp-nte
fax-relay ecm disable
```



```
fax rate disable
fax protocol pass-through g711ulaw
no vad
dial-peer voice 21 voip
description " Incoming IP-PBX - EdgeMarc facing side "
session protocol sipv2
incoming called-number 402614....
voice-class codec 1
voice-class sip asymmetric payload full
voice-class sip asserted-id pai
voice-class sip privacy-policy passthru
voice-class sip bind control source-interface GigabitEthernet0/0/1
voice-class sip bind media source-interface GigabitEthernet0/0/1
dtmf-relay rtp-nte
fax-relay ecm disable
fax rate disable
fax protocol pass-through g711ulaw
no vad
dial-peer voice 15 voip
description "Outgoing To EdgeMarc" -EdgeMarc facing side
destination-pattern [0-9]T
session protocol sipv2
session target ipv4:10.70.4.30:5060
voice-class codec 1
voice-class sip asymmetric payload full
voice-class sip asserted-id pai
voice-class sip privacy-policy passthru
```



```
voice-class sip early-offer forced
voice-class sip profiles 1
voice-class sip bind control source-interface GigabitEthernet0/0/1
voice-class sip bind media source-interface GigabitEthernet0/0/1
dtmf-relay rtp-nte
fax-relay ecm disable
fax rate disable
fax protocol pass-through g711ulaw
no vad
dial-peer voice 16 voip
description "Outgoing To EdgeMarc" -IP PBX facing side"
session protocol sipv2
incoming called-number [0-9]T
voice-class codec 1
voice-class sip asymmetric payload full
voice-class sip asserted-id pai
voice-class sip privacy-policy passthru
voice-class sip profiles 1
voice-class sip bind control source-interface GigabitEthernet0/0/0
voice-class sip bind media source-interface GigabitEthernet0/0/0
dtmf-relay rtp-nte
fax-relay ecm disable
fax rate disable
fax protocol pass-through g711ulaw
no vad
sip-ua
credentials username 4023159990 password 7 15465B5E577B7E7D716A65 realm 10.70.4.30
```



```
authentication username 4023159990 password 7 01475656085A535678151E
registrar ipv4:10.70.4.30 expires 3600
!
!
line con 0
stopbits 1
line aux 0
stopbits 1
line vty 0 4
password tekV1z10n
login
transport input telnet ssh
!
!
End
```



Configuring the Cisco Unified Communications Manager

Cisco UCM Version



Figure 2: Cisco UCM Version



Cisco UCM Audio Codec Preference List

Navigation Path: System → Region Information → Audio codec preference list

Cisco UCM 11.0.1 has a feature called Audio Codec Preference List. This feature allows to configure the order of audio codec preference both for Inter and Intra Region calls. Audio Codec Preference list is assigned to the Region used by the Device Pool for Phones and by Conference Bridges. Based on user requirement, different codec regions can be assigned as their first choice codec with this configuration for inbound calls as well as conferences initiated by Cisco IP phones. Audio codec preference for outbound calls is determined by Cisco UBE (via configuration of voice-class codec)

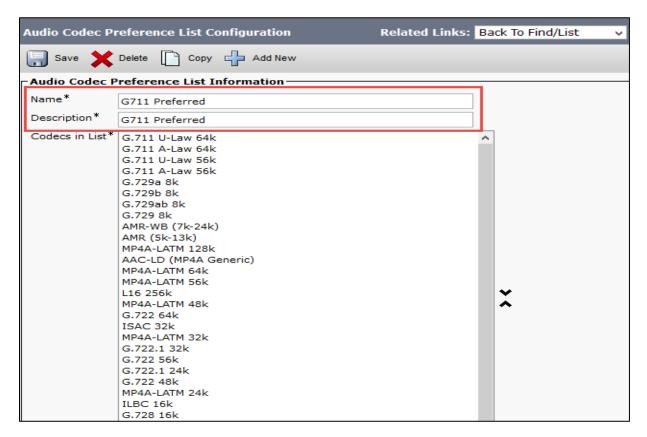


Figure 3: Audio Codec Preference List



Cisco UCM Region Configuration

Navigation Path: System → Region Information → Region

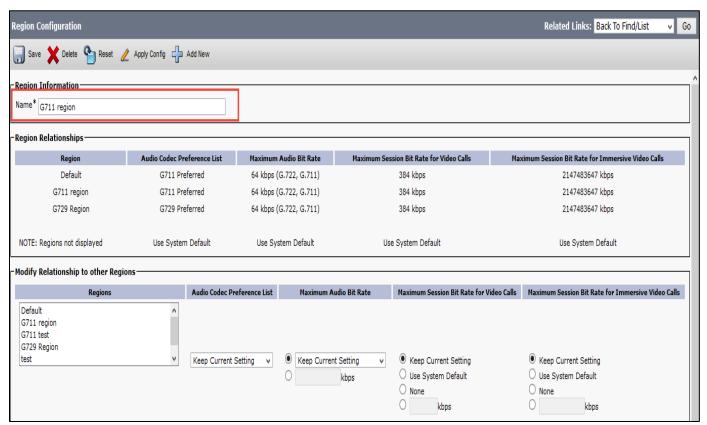


Figure 4: Region Configuration



Device Pool Configuration

Navigation Path: System → Device Pool

"G711 pool" Device Pool is configured for testing the interoperability. No special consideration needs to be taken when configuring the Device Pools. Optionally, a Media Resource Group List can be added to the Device Pools, if needed, to assign selected Media Resources (Conference Bridges, Transcoders, MoH servers, Annunciators) to devices.

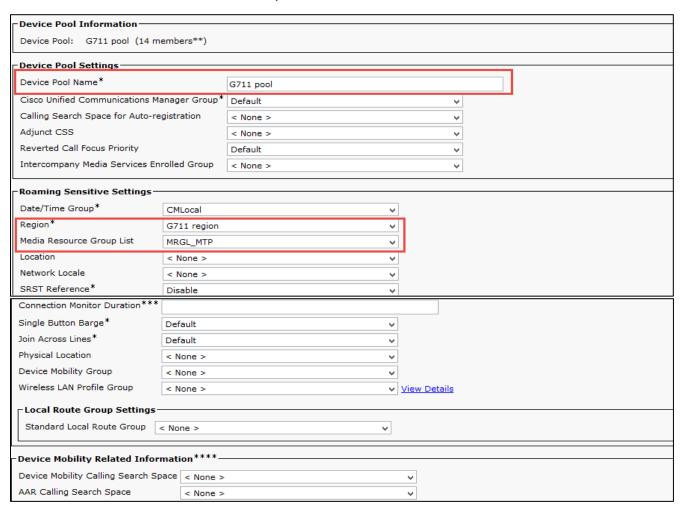


Figure 5: Device Pool Configuration



AAR Group	< None >		~		
Calling Party Transformation	CSS < None >		~		
Called Party Transformation	CSS < None >		~		
Geolocation Configuration	1				
Geolocation < None >		<u> </u>			
Geolocation Filter < None >					
Call Routing Information—					
-Incoming Calling Party S	Settings————				
			g will use prefix at the next npty in which case there is		ol/Service Parameter).
		Clear Prefix Setting	gs Default Prefix Set	tings	
Number Type	Prefix	Strip I	Digits	Calling Search Sp	ace
National Number	Default		< None >		¥
International Number	Default		< None >		~
Unknown Number	Default		< None >		V
Offichown Number	5.5.11		< None >		~
Subscriber Number Incoming Called Party Se If the administrator sets th	ne prefix to Default this				Service Parameter).
Subscriber Number Incoming Called Party Se	ettings ne prefix to Default this		pty in which case there is r	no prefix assigned.	Service Parameter).
Subscriber Number Incoming Called Party Se If the administrator sets th	ettings ne prefix to Default this	fix unless the field is em	pty in which case there is r Default Prefix Setti	no prefix assigned.	
Subscriber Number Incoming Called Party Se If the administrator sets th Otherwise, the value config	ettings ne prefix to Default this gured is used as the pre	fix unless the field is em Clear Prefix Settings	pty in which case there is r Default Prefix Setti	no prefix assigned.	
Subscriber Number Incoming Called Party Se If the administrator sets th Otherwise, the value config	ettings ne prefix to Default this gured is used as the pre	fix unless the field is em Clear Prefix Settings Strip Di	pty in which case there is r Default Prefix Setti igits	no prefix assigned.	ie .
Subscriber Number Incoming Called Party Se If the administrator sets th Otherwise, the value config Number Type National Number	ettings The prefix to Default this gured is used as the prefix Prefix Default	Clear Prefix Settings Strip Di	pty in which case there is r Default Prefix Setti gits < None >	no prefix assigned.	re V
Incoming Called Party Se If the administrator sets th Otherwise, the value config Number Type National Number International Number	ettings ne prefix to Default this gured is used as the pre Prefix Default Default	Clear Prefix Settings Strip Di 0	pty in which case there is r Default Prefix Setti gits < None > < None >	no prefix assigned.	re V
Subscriber Number Incoming Called Party Se If the administrator sets th Otherwise, the value config Number Type National Number International Number Unknown Number	ettings the prefix to Default this gured is used as the prefix Prefix Default Default Default	Clear Prefix Settings Strip Di 0 0	pty in which case there is r Default Prefix Setti igits < None > < None >	no prefix assigned.	v v
Subscriber Number Incoming Called Party Se If the administrator sets th Otherwise, the value config Number Type National Number International Number Unknown Number	ettings ne prefix to Default this gured is used as the pre Prefix Default Default Default	Clear Prefix Settings Strip Di 0 0	pty in which case there is r Default Prefix Setti igits < None > < None >	no prefix assigned.	v v
Subscriber Number Incoming Called Party Se If the administrator sets th Otherwise, the value config Number Type National Number International Number Unknown Number Subscriber Number	prefix to Default this gured is used as the prefix Prefix Default Default Default Default	Clear Prefix Settings Strip Di 0 0	pty in which case there is r Default Prefix Setti igits < None > < None >	no prefix assigned.	v v
Subscriber Number Incoming Called Party Se If the administrator sets th Otherwise, the value config Number Type National Number International Number Unknown Number Subscriber Number	Prefix Default Default Default Default This Phone	Clear Prefix Settings Strip Di 0 0	pty in which case there is r Default Prefix Setti igits < None > < None >	no prefix assigned.	v v
Subscriber Number Incoming Called Party Se If the administrator sets th Otherwise, the value config Number Type National Number International Number Unknown Number Subscriber Number Phone Settings Caller ID For Calls From Calling Party Transformation	prefix Default Default Default Default Default Con CSS < None >	Clear Prefix Settings Strip Di 0 0	pty in which case there is r Default Prefix Setti gits < None > < None > < None > < None >	no prefix assigned.	v v
Incoming Called Party Se If the administrator sets th Otherwise, the value config Number Type National Number International Number Unknown Number Subscriber Number Phone Settings Caller ID For Calls From	Prefix Default Default Default Default This Phone On CSS < None >	Clear Prefix Settings Strip Di 0 0	pty in which case there is r Default Prefix Setti gits < None > < None > < None > < None >	no prefix assigned.	v v
Subscriber Number Incoming Called Party Se If the administrator sets th Otherwise, the value config Number Type National Number International Number Unknown Number Subscriber Number Phone Settings Caller ID For Calls From Calling Party Transformation Connected Party Settings	Prefix Default Default Default Default On CSS < None >	Clear Prefix Settings Strip Di 0 0	pty in which case there is r Default Prefix Setti igits < None > < None > < None > < None > < None >	no prefix assigned.	v v

Figure 6: Device Pool Configuration – Cont.



Annunciator Configuration

Navigation: Media Resource → Annunciator

Set Name* = ANN_2

Set Description = ANN_clus23pubsub. This is used for this example.

Set Device Pool* = G711 pool

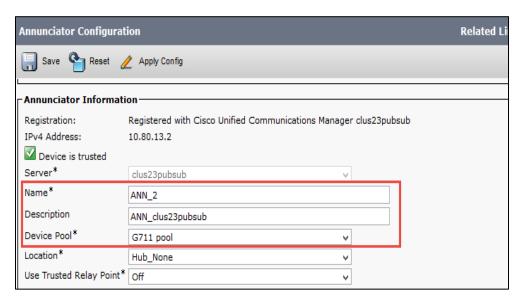


Figure 7: Annunciator Configuration



Conference Bridge Configuration

Navigation: Media Resources → Conference Bridge

Set Conference Bridge Type* = Cisco Conference Bridge Software

Set Host Server = clus23pubsub. This is used for this example

Set Conference Bridge Name* = CFB_2

Set Description = CFB_clus23pubsub. This is used in this example.

Set Device Pool* = G711 pool

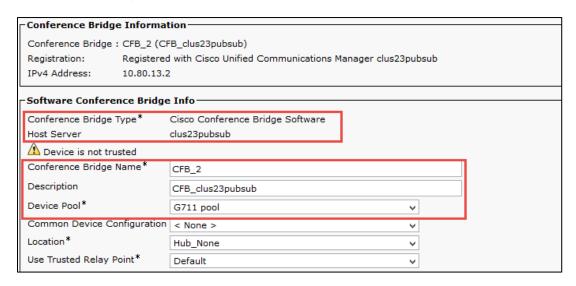


Figure 8: Conference Bridge Configuration



Media Termination Point Configuration

NOTE*** Cox certification is a SIP trunk certification between Cox Business eSBC, Cisco CUBE and Cisco CUCM only. In the event the customer requires DTMF between dissimilar endpoints an external MTP is required"

Navigation: Media Resource → Media Termination Point

Set Media Termination Point Name* = MTP_2 Set Description = MTP_clus23pubsub is used for this example Set Device pool* = G711 pool

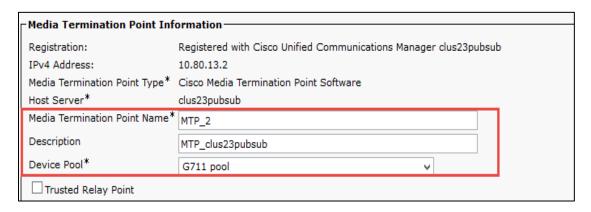


Figure 9: Media Termination Point Configuration



Music on Hold Server Configuration

Navigation: Media Resources → Music on Hold Server

Set Music on Hold Server Name* = MOH_2

Set Description = MOH_clus23pubsub. This is used for this example.

Set Device Pool* = G711 pool

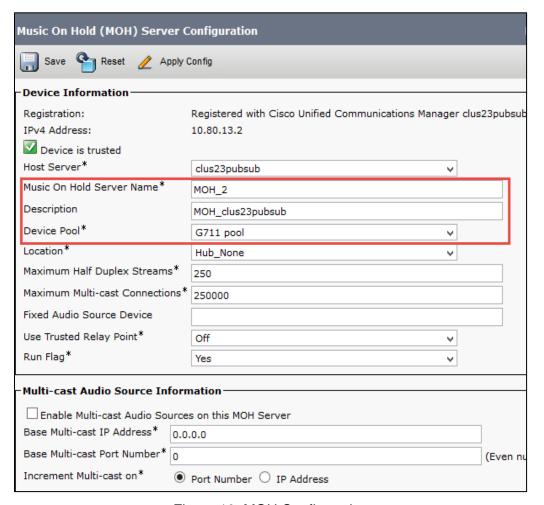


Figure 10: MOH Configuration



Media Resource Group Configuration

Navigation Path: Media Resources → Media Resources group

The Media Resource Group (MRG) contains media resources, such as Conference Bridge, Transcoder, MoH server and Annunciator. It will be assigned to a Media Resource Group List (MRGL) which is used to allocate media resources to groups of devices through Device Pools, or individually by configuring a valid MRGL at the device configuration page.

Set Name*= MRG_MTP. This is used for this example.

Set Description = MRG with MTP. This text is used to define this Media Resource Group List.

Set all Resources in the selected Media Resources Box

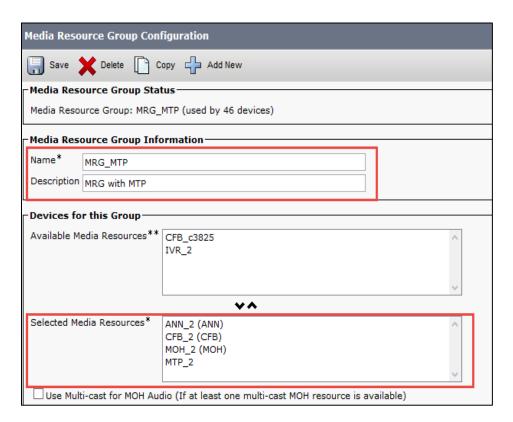


Figure 11: Media Resource Group Configuration



Media Resource Group List Configuration

Navigation Path: Media Resources → Media Resource Group List

Set Name = MRGL_MTP
Set selected Media Resource Groups = MRG_MTP

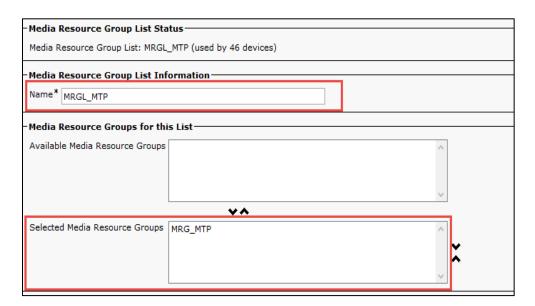


Figure 12: Media Resource Group List Configuration



Cisco IP Phone 9971 SIP Configuration

Set MAC Address* = the below mac is used in this example

Set Description = EXT-COX-1399. This text is used to identify this Phone

Set Device Pool*= G711 pool. This is used in this example

Set Phone Button Template*= Standard 9971 SIP. This is used in this example

Set Soft key Template = Standard User. This is used in this example

Set Media Resource Group List = MRGL_MTP. This is used in this example

Set User Hold MOH Audio Source = 1-SampleAudioSource

Set Network Hold MOH Audio Source = 1-SampleAudioSource

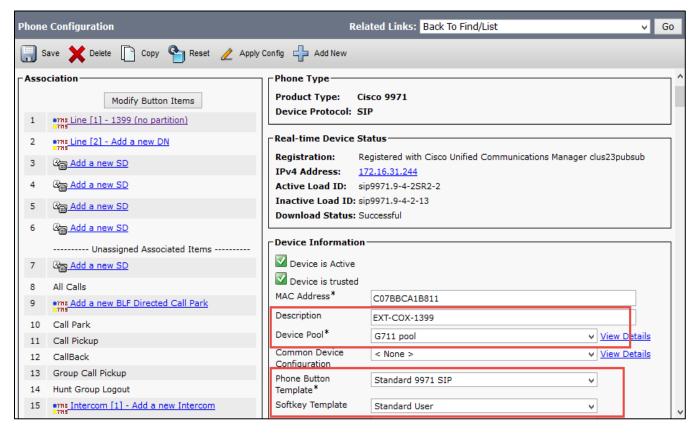


Figure 13: Cisco IP Phone 9971 SIP Configuration



Common Phone Profile*	Standard Common Phone Profile	٧	View Details
Calling Search Space	< None >	V	
AAR Calling Search Space	< None >	٧	
Media Resource Group List	MRGL_MTP	V	
User Hold MOH Audio Source	1-SampleAudioSource	٧	
Network Hold MOH Audio Source	1-SampleAudioSource	٧	
Location*	Hub_None	V	
AAR Group	< None >	٧	
User Locale	< None >	V	
Network Locale	< None >	V	
Built In Bridge*	Default	V	
Privacy*	Default	V	
Device Mobility Mode*	Default	V	View Current
	Device Mobility Settings		
Owner	O User Anonymous (Public/Shared Space)		
Owner User ID		٧	
Phone Personalization	Default	٧	
Services Provisioning	Default	٧	
Phone Load Name			
Use Trusted Relay Point*	Default	٧	
BLF Audible Alert Setting (Phone Idle)*	Default	٧	
BLF Audible Alert Setting (Phone Busy)*	Default	٧	
Always Use Prime Line	Default	٧	
Always Use Prime Line for Voice Message*	Default	٧	
Geolocation	< None >	٧	
Feature Control Policy	< None >	٧	
☐ Ignore Presentation	Indicators (internal calls only)		
✓ Allow Control of De	vice from CTI		
✓ Logged Into Hunt G	roup		
Remote Device			
Protected Device**	**		
Require off-premise	location		

Figure 14: Cisco IP Phone 9971 SIP Configuration – Cont.



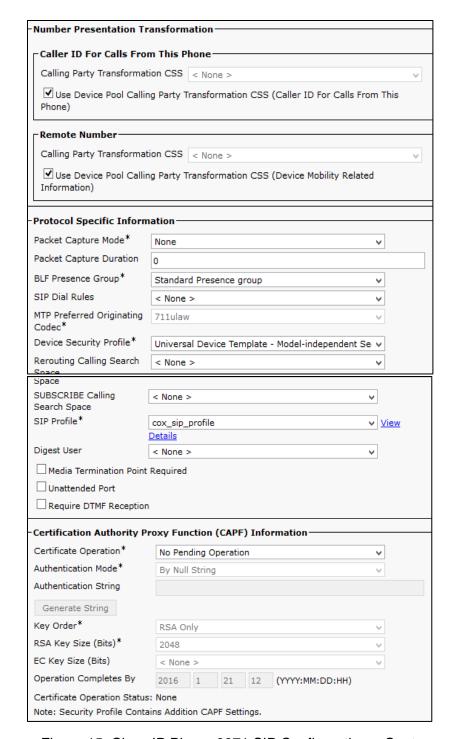


Figure 15: Cisco IP Phone 9971 SIP Configuration - Cont.



Expansion Module	Infor	mation —		
Module 1	< No	one >	~	
Module 1 Load Name	•			
Module 2	< No	one >	~	
Module 2 Load Name	•			
Module 3	< No	one >	~	
Module 3 Load Name				
-External Data Loca	ations	Information (Leave blank to use de	efault)	
Information				
Directory				
Messages				
Services				
Authentication Serve	er			
Proxy Server				
Idle				
Idle Timer (seconds)		1		
Secure Authentication Secure Directory UR				
	L			
Secure Idle URL				
Secure Information	URL			
Secure Messages UF	RL			
Secure Services URI	L			
-Extension Informa	ation-			
Describe exercise	Makil	Day .		
Log Out Profile		rrent Device Settings		
Log in Time < No		rrent Device Settings	~	
Log out Time < No				
Log out Time 4 No				
- MI PP and Confide	ntial /	Access Level Information		
MLPP Domain				
		< None >	~	
MLPP Indication*		Default	~	
MLPP Preemption*		Default	~	
Confidential Access	Mode	< None >	~	
Confidential Access	Level	< None >	~	
Do Not Disturb				
Do Not Disturb	Г	Jse Common Phone Profile Setting	~	
DND Incoming Call A			~	
Secure Shell Infor	matio	n —		
Secure Shell User		ministrator		
Secure Shell Passwo	rd ••		••••	
Product Specific Co	onfigu	uration Layout		
?		Parameter Value		verride mmon
☐ Disable Speakerp	bone		Se	ettings
☐ Disable Speakerp		and Headset		
	Enable		_	
	Enable]
Cisco Camera*	Disab]
Console Access*	Disab	led v		

Figure 16: Cisco IP Phone 9971 SIP Configuration – Cont.



Video Capabilities*	Disabled 🗸	
Enable/Disable	Mass Storage	
USB Classes	Human Interface Device Audio Class	
SDIO *	Disabled 🔻	
Bluetooth *	Enabled v	
Wifi *	Enabled	
Bluetooth Profiles*	Handsfree ^	
	Human Interface Device	
Settings Access*	Enabled v	
Gratuitous ARP*	Disabled	
PC Voice VLAN Access*	Enabled 🔻	
Web Access*	Disabled	
Show All Calls on Primary Line*	Disabled v	
Days Display Not	Sunday	П
Active	Monday	
Digalay On Time	Tuesday 🔻	
Display On Time	07:30	
Display On Duration	10:30	
Display Tule Timeout	01:00	
Display Tule Timeout HTTPS Server*	01:00 http and https Enabled	
Timeout HTTPS Server* Enable Power Save		
Timeout HTTPS Server*	http and https Enabled Sunday Monday	
Timeout HTTPS Server* Enable Power Save	http and https Enabled Sunday Monday Tuesday V	
Timeout HTTPS Server* Enable Power Save Plus Phone On Time	http and https Enabled Sunday Monday Tuesday 00:00	
Timeout HTTPS Server* Enable Power Save Plus Phone On Time Phone Off Time	http and https Enabled Sunday Monday Tuesday 00:00 24:00	
Timeout HTTPS Server* Enable Power Save Plus Phone On Time	http and https Enabled Sunday Monday Tuesday 00:00	
Timeout HTTPS Server* Enable Power Save Plus Phone On Time Phone Off Time Phone Off Idle Timeout* Enable Audible A	http and https Enabled Sunday Monday Tuesday 00:00 24:00	
Timeout HTTPS Server* Enable Power Save Plus Phone On Time Phone Off Time Phone Off Idle Timeout*	http and https Enabled Sunday Monday Tuesday 00:00 24:00	
Timeout HTTPS Server* Enable Power Save Plus Phone On Time Phone Off Time Phone Off Idle Timeout* Enable Audible A EnergyWise Domain EnergyWise	http and https Enabled Sunday Monday Tuesday 00:00 24:00	
Timeout HTTPS Server* Enable Power Save Plus Phone On Time Phone Off Time Phone Off Idle Timeout* Enable Audible A EnergyWise Domain	http and https Enabled Sunday Monday Tuesday 00:00 24:00	
Timeout HTTPS Server* Enable Power Save Plus Phone On Time Phone Off Time Phone Off Idle Timeout* Enable Audible A EnergyWise Domain EnergyWise Endpoint Security Secret Allow EnergyWise	http and https Enabled Sunday Monday Tuesday 00:00 24:00 60	
Timeout HTTPS Server* Enable Power Save Plus Phone On Time Phone Off Time Phone Off Idle Timeout* Enable Audible A EnergyWise Domain EnergyWise Endpoint Security Secret Allow EnergyWis Span to PC Port*	http and https Enabled Sunday Monday Tuesday 00:00 24:00 60	
Timeout HTTPS Server* Enable Power Save Plus Phone On Time Phone Off Time Phone Off Idle Timeout* Enable Audible A EnergyWise Domain EnergyWise Endpoint Security Secret Allow EnergyWise	http and https Enabled Sunday Monday Tuesday 00:00 24:00 60 slert	
Timeout HTTPS Server* Enable Power Save Plus Phone On Time Phone Off Time Phone Off Idle Timeout* Enable Audible A EnergyWise Domain EnergyWise Endpoint Security Secret Allow EnergyWis Span to PC Port*	http and https Enabled Sunday Monday Tuesday 00:00 24:00 60 Alert e Overrides Disabled v	
Timeout HTTPS Server* Enable Power Save Plus Phone On Time Phone Off Time Phone Off Idle Timeout* Enable Audible A EnergyWise Domain EnergyWise Endpoint Security Secret Allow EnergyWis Span to PC Port* Logging Display*	http and https Enabled Sunday Monday Tuesday 00:00 24:00 60 Alert e Overrides Disabled v	
Timeout HTTPS Server* Enable Power Save Plus Phone On Time Phone Off Time Phone Off Idle Timeout* Enable Audible A EnergyWise Domain EnergyWise Endpoint Security Secret Allow EnergyWis Span to PC Port* Logging Display* Load Server	http and https Enabled Sunday Monday Tuesday 00:00 24:00 60 Alert e Overrides Disabled v	

Figure 17: Cisco IP Phone 9971 SIP Configuration – Cont.



Recording Tone*	Disabled V		
Recording Tone Local Volume*	100		
Recording Tone Remote Volume*	50		
Recording Tone Duration			
Display On When Incoming Call*	Enabled 🗸		
RTCP*	Disabled 🗸	<u> </u>	
Log Server			
IPv6 Log Server			
Remote Log*	Disabled V		
Log Profile	Default ^ Preset		Ш
	Telephony		
Advertise G.722 and iSAC Codecs *	Use System Default v		
Wideband Headset UI Control*	Enabled 🗸		
Wideband Headset *	Enabled 🗸		
Peer Firmware Sharing*	Enabled		
Cisco Discovery	Enabled		
Cisco Discovery	Enabled		
Protocol (CDP): PC Port*	Litabled Y		
Link Layer	Enabled v		
Discovery Protocol - Media Endpoint Discover (LLDP-MED): Switch Port*			
Link Layer Discovery Protocol	Enabled		
(LLDP): PC Port*			
LLDP Asset ID			
LLDP Power Priority*	Unknown		
802.1x Authentication*	User Controlled v		
FIPS Mode*	Disabled 🗸		
Detect Unified CM Connection Failure	Normal		
Switch Port	Disabled v		
Remote Configuration*			
PC Port Remote Configuration*	Disabled v		
Automatic Port	Disabled		

Figure 18: Cisco IP Phone 9971 SIP Configuration – Cont.



Automatic Port Synchronization*	Disabled	~	
Power Negotiation	Enabled	~	
Restrict Data Rates	Disabled	~	
SSH Access*	Disabled	¥	
Incoming Call Toast Timer*	5	~	
Provide Dial Tone from Release Button*	Disabled	~	
Hide Video By Default*	Disabled	~	
Background Image			
Simplified New Call UI*	Disabled	~	
Enable VXC VPN for MAC			
VXC VPN Option*	Dual Tunnel	V	
VXC Challenge*	Challenge	¥	
VXC-M Servers			
Revert to All Calls	Disabled	~	
RTCP for Video*	Enabled	V	
KTCF for video	Eliabica		Ш
Record Call Log	Disabled	Ţ	
	Disabled Enabled		
Record Call Log Record Call Log For Remote Private Calls* Show Call History	Disabled Enabled	~	
Record Call Log Record Call Log For Remote Private Calls*	Disabled Enabled	~	
Record Call Log Record Call Log For Remote Private Calls* Show Call History for Selected Line	Disabled Disabled Disabled	~	
Record Call Log Record Call Log For Remote Private Calls* Show Call History for Selected Line Only.* Actionable	Disabled Disabled Disabled	~	
Record Call Log Record Call Log For Remote Private Calls* Show Call History for Selected Line Only.* Actionable Incoming Call Alert *	Disabled Enabled Disabled Disabled	> > > >	
Record Call Log Record Call Log For Remote Private Calls* Show Call History for Selected Line Only.* Actionable Incoming Call Alert * DF bit*	Disabled Enabled Disabled Disabled	> > > >	
Record Call Log Record Call Log For Remote Private Calls* Show Call History for Selected Line Only.* Actionable Incoming Call Alert * DF bit* Default Line Filter Separate Audio	Disabled Enabled Disabled Disabled 0	>	
Record Call Log For Remote Private Calls* Show Call History for Selected Line Only.* Actionable Incoming Call Alert * DF bit* Default Line Filter Separate Audio and Video Mute*	Disabled Enabled Disabled Disabled Disabled Disabled	>	
Record Call Log Record Call Log For Remote Private Calls* Show Call History for Selected Line Only.* Actionable Incoming Call Alert * DF bit* Default Line Filter Separate Audio and Video Mute* Softkey Control*	Disabled Enabled Disabled Disabled Disabled Disabled	>	
Record Call Log Record Call Log For Remote Private Calls* Show Call History for Selected Line Only.* Actionable Incoming Call Alert * DF bit* Default Line Filter Separate Audio and Video Mute* Softkey Control* Start Video Port	Disabled Enabled Disabled Disabled Disabled Disabled Disabled Disabled Feature Control Policy	>	
Record Call Log Record Call Log For Remote Private Calls* Show Call History for Selected Line Only.* Actionable Incoming Call Alert * DF bit* Default Line Filter Separate Audio and Video Mute* Softkey Control* Start Video Port Lowest Alerting	Disabled Enabled Disabled Disabled Disabled Disabled Disabled Disabled Feature Control Policy	> > > > > > > > > > > > > > > > > > > >	

Figure 19: Cisco IP Phone 9971 SIP Configuration – Cont.



Set Directory Number* = 1399. This is used in this example.

Set Description = SIP-1399. This is used in this example.

Set Alerting Name = SIP-1399. This is used in this example.

Set ASCII Alerting Name = SIP-1399. This is used in this example.

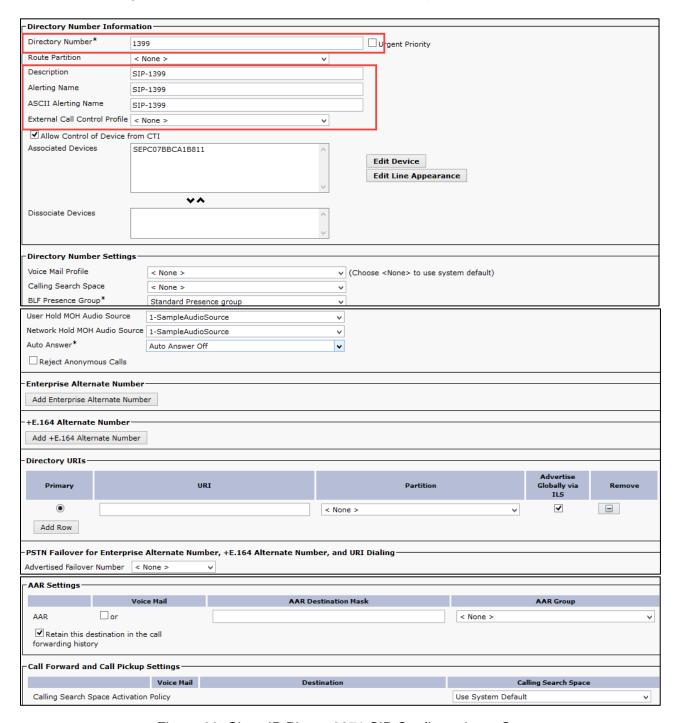


Figure 20: Cisco IP Phone 9971 SIP Configuration - Cont.



Set Display (Caller ID) = SIP-1399. This is used in this example Set ASCII Display (Caller ID) = SIP-1399. This is used in this example Set Line Text Label = SIP-1399. This is used in this example Set External Phone Number Mask = 4026141399. This is used in this example

Forward All	or			<	None >	v
Secondary Calling Search Space for Fo	rward All			<	None >	~
Forward Busy Internal	or			<	None >	V
Forward Busy External	or			<	None >	v
Forward No Answer Internal	or			<	None >	V
Forward No Answer External	or			<	None >	٧
Forward No Coverage Internal	or			<	None >	v
Forward No Coverage External	or			<	None >	v
Forward on CTI Failure	or			<	None >	v
Forward Unregistered Internal	or			<	None >	v
Forward Unregistered External	or			<	None >	V
No Answer Ring Duration (seconds)						
Call Pickup Group < N	ione >	V				
- Park Monitoring						
	Voice	Destination			Calling Search Space	
Dade Manifesian Fernand No Debitor D	estination or	Destination		- None -		
Park Monitoring Forward No Retrieve Do External	estination \square or			< None > parker's line.		A blank value means to call the
Park Monitoring Forward No Retrieve De	estination			< None >	V .	A blank value means to call the
Park Monitoring Reversion Timer		A blank va	ue will use value set in I	Park Monitoring Reversi	on Timer service parameter	
-MLPP Alternate Party And Confident	tial Access Level Setting	gs				
Target (Destination)						
MLPP Calling Search Space	< None >	V				
MLPP No Answer Ring Duration (seconds	(3)					
Confidential Access Mode	< None >	·				
Confidential Access Level	< None >	٧				
Call Control Agent Profile	< None >	٧				
-Line Settings for All Devices						
Hold Reversion Ring Duration (seconds)			Setting the Hold Reve	rsion Ring Duration to z	ero will disable the feature	
Hold Reversion Notification Interval (sec					al to zero will disable the feature	
Party Entrance Tone*	Default	٧				
-Line 1 on Device SEPC07BBCA1B811						
' ' '	SIP-1399				playing text such as a name inste	ad of a directory number for calls. If
	SIP-1399	person receiving a call may not see the p	per identity of the caller			
	SIP-1399					
External Phone Number Mask	4026141399					

Figure 21: Cisco IP Phone 9971 SIP Configuration - Cont.



Visual Message Waiting Indicator Policy*	Use System Policy	٧		
Audible Message Waiting Indicator Policy*	Default	٧		
Ring Setting (Phone Idle)*	Use System Defau	lt 🔻		
Ring Setting (Phone Active)	Use System Defau	lt v	Applies to this line when any	ny line on the phone has a call in progress.
Call Pickup Group Audio Alert Setting(Phone Idle)	Use System Defau	lt 🗸		
Call Pickup Group Audio Alert Setting(Phone Active)	Use System Defau	lt v		
Recording Option*	Call Recording Dis	abled v		
Recording Profile	< None >	V		
Recording Media Source*	Gateway Preferred	¥		
Monitoring Calling Search Space	< None >	٧		
✓ Log Missed Calls				
-Multiple Call/Call Waiting Settings	on Device SEPC07	BBCA1B811		
Note:The range to select the Max Numl	ber of calls is: 1-200			
Maximum Number of Calls*		4		
Busy Trigger*		2		(Less than or equal to Max. Calls)
Forwarded Call Information Displa	ay on Device SEPC	D7BBCA1B811		
Caller Name				
Caller Number				
Redirected Number				
☐ Dialed Number				

Figure 22: Cisco IP Phone 9971 SIP Configuration – Cont.



Cisco IP Phone 7971 SCCP Configuration

Set MAC Address* = the below mac is used in this example

Set Description = EXT-COX-1958. This text is used to identify this Phone

Set Device Pool*= G711 pool. This is used in this example

Set Phone Button Template*= Standard 7971 SCCP. This is used in this example

Set Soft key Template = Standard User. This is used in this example

Set Media Resource Group List = MRGL_MTP. This is used in this example

Set User Hold MOH Audio Source = 1-SampleAudioSource

Set Network Hold MOH Audio Source = 1-SampleAudioSource

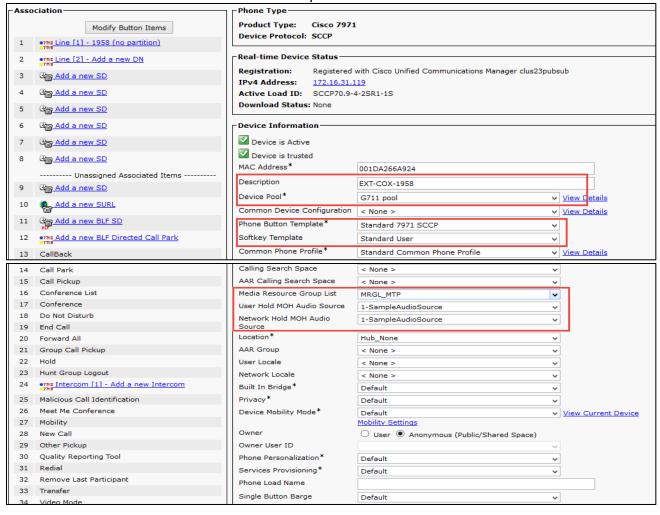


Figure 23: Cisco IP Phone 7971 SCCP Configuration



Use Trusted Relay Point*	Default
BLF Audible Alert Setting (Pho	ne Idle)* Default
BLF Audible Alert Setting (Pho	ne Busy)* Default
Always Use Prime Line*	Default ∨
Always Use Prime Line for Voi	e Message* Default
Geolocation	< None > v
Retry Video Call as Audio	
Ignore Presentation Indica	ors (internal calls only)
✓ Allow Control of Device fro	
✓ Logged Into Hunt Group	
Remote Device	
Protected Device****	
☐ Hot line Device*****	
Require off-premise location	
Number Presentation Tran	formation—
Caller ID For Calls From	his Phone————————————————————————————————————
Calling Party Transformation	CSS < None >
✓ Use Device Pool Calling F	arty Transformation CSS (Caller ID For Calls From This Phone)
Remote Number	
Calling Party Transformation	
☑ Use Device Pool Calling F	arty Transformation CSS (Device Mobility Related Information)
Protocol Specific Informati	on-
Packet Capture Mode*	None
Packet Capture Duration	
BLF Presence Group*	Standard Presence group
Device Security Profile*	Cisco 7971 - Standard SCCP Non-Secure Profile v
SUBSCRIBE Calling Search Sp	
Unattended Port	
Require DTMF Reception	
RFC2833 Disabled	
Cartification Authority Des	For the (CARF) To Complian
	ry Function (CAPF) Information
	No Pending Operation V
Authentication String	By Null String V
Generate String Key Order*	
	RSA Only v
NOW INDEAD (DIES)	(IMO)

Figure 24: Cisco IP Phone 7971 SCCP Configuration – Cont.



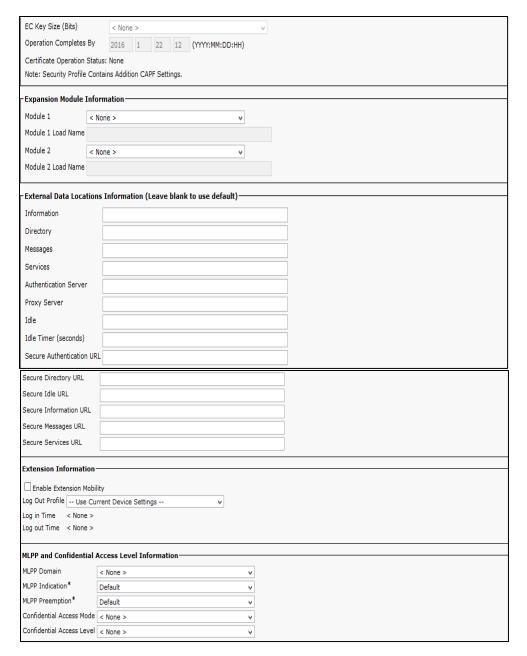


Figure 25: Cisco IP Phone 7971 SCCP Configuration – Cont.



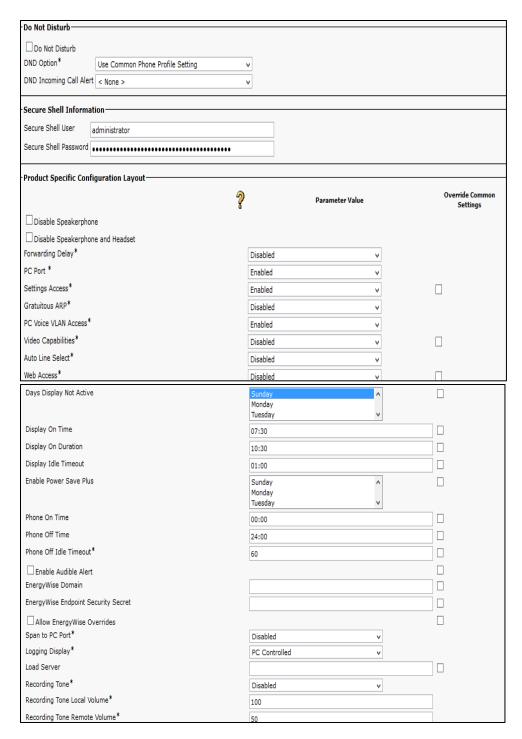


Figure 26: Cisco IP Phone 7971 SCCP Configuration - Cont.



Recording Tone Duration		
Display On When Incoming Call*	Disabled	
RTCP*	Disabled	
"more" Soft Key Timer	5	
Auto Call Select*	Enabled	
Log Server		
Advertise G.722 Codec*	Use System Default	
Wideband Headset UI Control*	Enabled v	
Wideband Handset UI Control*	Enabled	
Wideband Headset*	Enabled	
Wideband Handset*	Use Phone Default	
Peer Firmware Sharing*	Enabled	
Cisco Discovery Protocol (CDP): Switch Port*	Enabled	
Cisco Discovery Protocol (CDP): PC Port*	Enabled	
Link Layer Discovery Protocol - Media Endpoint Discover (LLDP-MED): Switch Port*	Enabled v	
Link Layer Discovery Protocol (LLDP): PC Port*	Enabled	
LLDP Asset ID		
LLDP Power Priority*	Unknown	
IPv6 Load Server		
IPv6 Log Server		
802.1x Authentication*		
	User Controlled 🔻	
Detect Unified CM Connection Failure*	User Controlled Normal V	
Minimum Ring Volume*		
Minimum Ring Volume* Headset Sidetone Level*	Normal	
Minimum Ring Volume* Headset Sidetone Level* HTTPS Server*	Normal 0-Silent Use Phone Default http and https Enabled v	
Minimum Ring Volume* Headset Sidetone Level* HTTPS Server* Enbloc Dialing*	Normal O-Silent Use Phone Default http and https Enabled Enabled V	
Minimum Ring Volume* Headset Sidetone Level* HTTPS Server* Enbloc Dialing* Switch Port Remote Configuration*	Normal O-Silent Use Phone Default http and https Enabled Enabled Disabled V	
Minimum Ring Volume* Headset Sidetone Level* HTTPS Server* Enbloc Dialing* Switch Port Remote Configuration* PC Port Remote Configuration*	Normal O-Silent Use Phone Default http and https Enabled Enabled Disabled Disabled V	
Minimum Ring Volume* Headset Sidetone Level* HTTPS Server* Enbloc Dialing* Switch Port Remote Configuration* PC Port Remote Configuration* Automatic Port Synchronization*	Normal O-Silent Use Phone Default http and https Enabled Enabled Disabled Disabled Disabled V	
Minimum Ring Volume* Headset Sidetone Level* HTTPS Server* Enbloc Dialing* Switch Port Remote Configuration* PC Port Remote Configuration* Automatic Port Synchronization*	Normal O-Silent Use Phone Default http and https Enabled Enabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Obsabled Obsabled Obsabled Obsabled Obsabled Obsabled Obsabled Obsabled	
Minimum Ring Volume* Headset Sidetone Level* HTTPS Server* Enbloc Dialing* Switch Port Remote Configuration* PC Port Remote Configuration* Automatic Port Synchronization*	Normal O-Silent Use Phone Default http and https Enabled Enabled Disabled Disabled Disabled V	
Minimum Ring Volume* Headset Sidetone Level* HTTPS Server* Enbloc Dialing* Switch Port Remote Configuration* PC Port Remote Configuration* Automatic Port Synchronization* SSH Access* LOGIN Access*	Normal O-Silent Use Phone Default http and https Enabled Enabled Disabled Disabled Disabled Enabled Enabled Disabled Enabled Enabled Disabled Disabled Enabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disab	

Figure 27: Cisco IP Phone 7971 SCCP Configuration – Cont.



Set Directory Number* = 1958 is used in this example Set Description = SCCP-1958 is used in this example Set Alerting Name = SCCP-1958 is used in this example Set ASCII Alerting Name = SCCP-1958 is used in this example

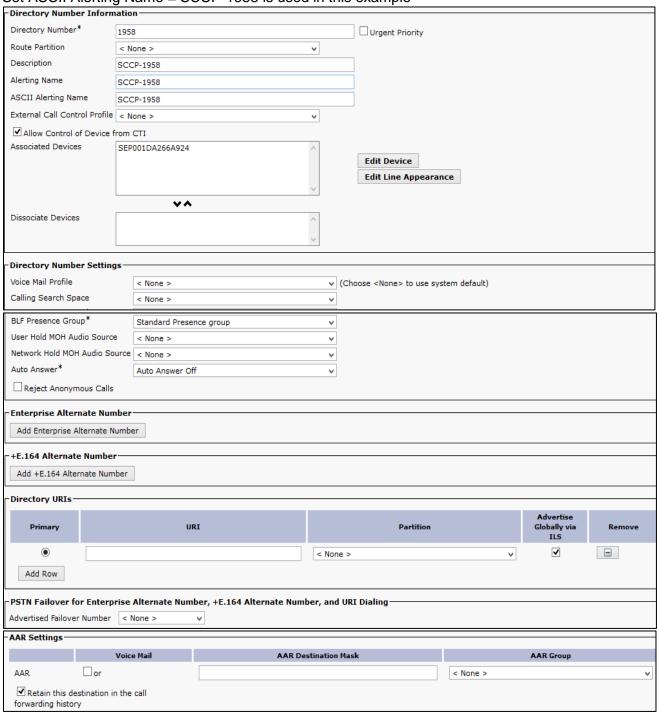


Figure 28: Cisco IP Phone 7971 SCCP Configuration – Cont.



-Call Forward and Call Pickup Se	ttings—			
	Voice Mai	1 Destination		Calling Search Space
Calling Search Space Activation Po	olicy			Use System Default
Forward All	\square or			< None >
Secondary Calling Search Space for	or Forwar	d All		< None >
Forward Busy Internal	\square or			< None >
Forward Busy External	\square 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 Group	< None	>		
Park Monitoring				
Voice Mail		Destination		Calling Search Space
Park Monitoring or Forward No Retrieve Destination External			< Non value n	e > v A blank neans to call the parker's line.
Park Monitoring or Forward No Retrieve Destination Internal			< Non value n	e > v A blank neans to call the parker's line.
Park Monitoring Reversion Timer para	ameter	A blank	c value wi	ll use value set in Park Monitoring Reversion Timer service
MLPP Alternate Party And Confi	dential /	Access Level Settings		
Target (Destination)				
MLPP Calling Search Space	<	None >		
MLPP No Answer Ring Duration (sec	conds)			
Confidential Access Mode	<	None >		
Confidential Access Level	<	None >		
Call Control Agent Profile	<	None >		
-Line Settings for All Devices-				
Hold Reversion Ring Duration (seco	nds)		Settin	g the Hold Reversion Ring Duration to zero will disable the
Section (3000)		ature	South	,
Hold Reversion Notification Interval			Settin	g the Hold Reversion Notification Interval to zero will disable
(seconds)		e feature		
Party Entrance Tone*	D	efault v		

Figure 29: Cisco IP Phone 7971 SCCP Configuration – Cont.



Set Display (Caller ID) = SCCP-1958 is used in this example Set ASCII Display (Caller ID) = SCCP-1958 is used in this example Set Line Text Label = SCCP-1958 is used in this example Set External Phone Number Mask = 4026141958 is used in this example

-Line 1 on Device SEP001DA	2664924				
				7	
Display (Caller ID)	SCCP-1958			1 1	arance is intended for displaying text such as a
	name instead of a directory caller.	number for calls. If you	pecity a nui	mber, the person receiving	a call may not see the proper identity of the
ASCII Display (Caller ID)	SCCP-1958				
Line Text Label	SCCP-1958				
External Phone Number Mask	4026141958				
Visual Message Waiting Indicator Policy*	Use System Policy		v	_	
Audible Message Waiting Indicator Policy*	Default		v		
Ring Setting (Phone Idle)*	Use System Default		~		
Ring Setting (Phone Active)	Use System Default		Applies to	this line when any line on	the phone has a call in progress.
Call Pickup Group Audio Alert Setting(Phone Idle)	Use System Default		v		
Call Pickup Group Audio Alert Setting(Phone Active)	Use System Default		v		
Recording Option*	Call Recording Disabled		~		
Recording Profile	< None >		v		
Recording Media Source*	Gateway Preferred		v		
Monitoring Calling Search Space	< None >		~		
✓ Log Missed Calls					
-Multiple Call/Call Waiting Se	ettings on Device SEP001	DA266A924			
Note:The range to select the Ma	ax Number of calls is: 1-200				_
Maximum Number of Calls*		4			
Busy Trigger*		2			(Less than or equal to Max. Calls)
-Forwarded Call Information	Display on Device SEP00)1DA266A924			
Caller Name					
Caller Number					
Redirected Number					
☐ Dialed Number					

Figure 30: Cisco IP Phone 7971 SCCP Configuration – Cont.



SIP Trunk Security Profile

Navigation: System → Security → SIP Trunk Security Profile

Set Name* =cox non secure sip trunk profile is used in this example

Set Description = Non Secure SIP Trunk Profile authenticated by null String is used in this example Set Incoming Transport Type* = TCP+UDP

Set Outgoing Transport Type = UDP. SIP trunks to Cox E-SBC should use UDP as a transport protocol for SIP. This is configured using the SIP Trunk Security profile, which is later assigned to the SIP trunk itself.

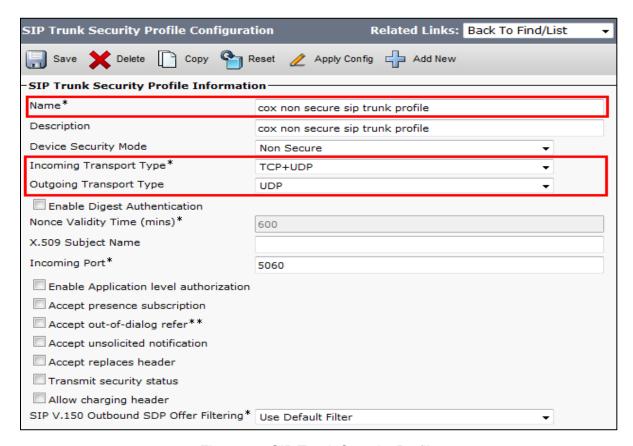


Figure 31: SIP Trunk Security Profile



SIP Profile

Navigation: Device → Device Settings → SIP Profile

Set SIP profile Name * = cox_sip_profile. This is used for this example Set SIP Rel1xx Options* = Send PRACK if 1xx contains SDP

NOTE*= Some PSTN network call prompters utilize early-media cut-through to offer menu options to the caller (DTMF select menu) before the call is connected. In order for Cisco UCM/Cisco UBE solution to achieve successful early-media cut-through, the Cisco UCM to Cisco UBE call leg must be enabled with SIP PRACK. To enable SIP PRACK on the Cisco UCM, the SIP Profile "SIP Rel1XX Options" setting must be set to "Send PRACK".

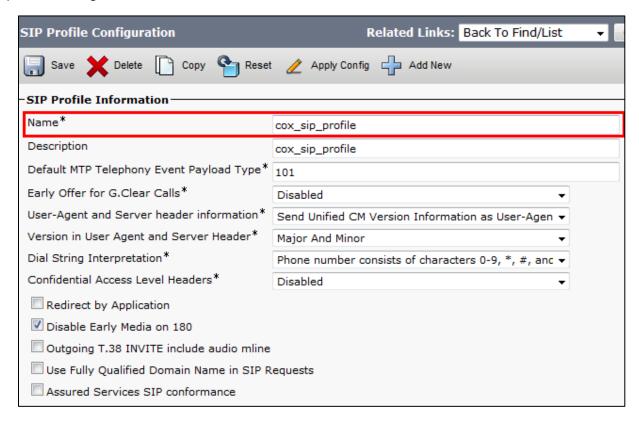


Figure 32: SIP Profile Configuration



-SDP Information					
SDP Session-level Bandwidth Modifier for Ear Offer and Re-invites*	ly	TIAS and AS		•	
SDP Transparency Profile		Pass all unknown SDP attributes		•	
Accept Audio Codec Preferences in Received		Default		_	
Require SDP Inactive Exchange for Mid-C	all Media	a Change			
Allow RR/RS bandwidth modifier (RFC 355	6)				
-Parameters used in Phone					
Timer Invite Expires (seconds)*	er Invite Expires (seconds)*				
Timer Register Delta (seconds)*	5				
Timer Register Expires (seconds)*	3600				
Timer T1 (msec)*	500				
Timer T2 (msec)*	4000				
Retry INVITE*	6				
Retry Non-INVITE*	10				
Media Port Ranges	Common Port Range for Audio and Video				
	_	Separate Port Ranges for Audio and Video			
Start Media Port*	16384	-			
Stop Media Port*	32766				
DSCP for Audio Calls	Use System Default ▼				
DSCP for Video Calls	Use Sy	stem Default	-		
DSCP for Audio Portion of Video Calls	Use Sy	stem Default	T		
DSCP for TelePresence Calls	Use System Default ▼				
DSCP for Audio Portion of TelePresence Calls	Use Sy	stem Default			
Call Pickup URI*	x-cisco	o-serviceuri-pickup			
Call Pickup Group Other URI*	x-cisco	o-serviceuri-opickup			
Call Pickup Group URI*	x-cisco	o-serviceuri-gpickup			
Meet Me Service URI*	x-cisco	o-serviceuri-meetme			
User Info*	None ▼				
DTMF DB Level*	Nominal				
Call Hold Ring Back*	Off		-		
Anonymous Call Block*	Off		-		
Caller ID Blocking*	Off		-		
Do Not Disturb Control*	User		▼		
Telnet Level for 7940 and 7960*	Disabl	led	-		

Figure 33: SIP Profile Configuration – Cont.



Resource Priority Namespace	< None > ▼
Timer Keep Alive Expires (seconds)*	120
Timer Subscribe Expires (seconds)*	120
Timer Subscribe Delta (seconds)*	5
Maximum Redirections*	70
Off Hook To First Digit Timer (milliseconds)*	15000
Call Forward URI*	x-cisco-serviceuri-cfwdall
Speed Dial (Abbreviated Dial) URI*	x-cisco-serviceuri-abbrdial
Conference Join Enabled	
RFC 2543 Hold	
Semi Attended Transfer	
Enable VAD	
Stutter Message Waiting	
MLPP User Authorization	
Normalization Script	
Normalization Script < None >	▼
Enable Trace	
Parameter Name	Parameter Value
1	
Townsian Research FROM URY GARGE	
-Incoming Requests FROM URI Settings	
Caller ID DN	
Caller ID DN	
Caller ID DN Caller Name	d on* Never ▼
Caller ID DN Caller Name - Trunk Specific Configuration	d on* Never < None > ✓
Caller ID DN Caller Name Trunk Specific Configuration Reroute Incoming Request to new Trunk base	
Caller ID DN Caller Name Trunk Specific Configuration Reroute Incoming Request to new Trunk base Resource Priority Namespace List	< None > ▼
Caller ID DN Caller Name Trunk Specific Configuration Reroute Incoming Request to new Trunk base Resource Priority Namespace List SIP Rel1XX Options*	< None > ▼ Send PRACK if 1xx Contains SDP ▼
Caller ID DN Caller Name - Trunk Specific Configuration Reroute Incoming Request to new Trunk base Resource Priority Namespace List SIP Rel1XX Options* Video Call Traffic Class*	< None > Send PRACK if 1xx Contains SDP Mixed ✓
Caller ID DN Caller Name Trunk Specific Configuration Reroute Incoming Request to new Trunk base Resource Priority Namespace List SIP Rel1XX Options* Video Call Traffic Class* Calling Line Identification Presentation* Session Refresh Method*	< None > Send PRACK if 1xx Contains SDP Mixed Default Invite
Caller ID DN Caller Name Trunk Specific Configuration Reroute Incoming Request to new Trunk base Resource Priority Namespace List SIP Rel1XX Options* Video Call Traffic Class* Calling Line Identification Presentation* Session Refresh Method* Early Offer support for voice and video calls*	< None > Send PRACK if 1xx Contains SDP Mixed Default ▼
Caller ID DN Caller Name Trunk Specific Configuration Reroute Incoming Request to new Trunk base Resource Priority Namespace List SIP Rel1XX Options* Video Call Traffic Class* Calling Line Identification Presentation* Session Refresh Method* Early Offer support for voice and video calls* Enable ANAT	< None > Send PRACK if 1xx Contains SDP Mixed Default Invite
Caller ID DN Caller Name Trunk Specific Configuration Reroute Incoming Request to new Trunk base Resource Priority Namespace List SIP Rel1XX Options* Video Call Traffic Class* Calling Line Identification Presentation* Session Refresh Method* Early Offer support for voice and video calls* Enable ANAT Deliver Conference Bridge Identifier	< None > Send PRACK if 1xx Contains SDP Mixed Default Invite Best Effort (no MTP inserted)
Caller ID DN Caller Name Trunk Specific Configuration Reroute Incoming Request to new Trunk base Resource Priority Namespace List SIP Rel1XX Options* Video Call Traffic Class* Calling Line Identification Presentation* Session Refresh Method* Early Offer support for voice and video calls* Enable ANAT Deliver Conference Bridge Identifier Allow Passthrough of Configured Line Dev	< None > Send PRACK if 1xx Contains SDP Mixed Default Invite Best Effort (no MTP inserted)
Caller ID DN Caller Name Trunk Specific Configuration Reroute Incoming Request to new Trunk base Resource Priority Namespace List SIP Rel1XX Options* Video Call Traffic Class* Calling Line Identification Presentation* Session Refresh Method* Early Offer support for voice and video calls* Enable ANAT Deliver Conference Bridge Identifier Allow Passthrough of Configured Line Dev	< None > Send PRACK if 1xx Contains SDP Mixed Default Invite Best Effort (no MTP inserted)
Caller ID DN Caller Name Trunk Specific Configuration Reroute Incoming Request to new Trunk base Resource Priority Namespace List SIP Rel1XX Options* Video Call Traffic Class* Calling Line Identification Presentation* Session Refresh Method* Early Offer support for voice and video calls* Enable ANAT Deliver Conference Bridge Identifier Allow Passthrough of Configured Line Dev	<pre></pre>

Figure 34: SIP Profile Configuration – Cont.



SIP OPTIONS Ping					
☑ Enable OPTIONS Ping to monitor destination status for Trunks with Service Type "None (Default)"					
Ping Interval for In-service and Partially In-service Trunks (seconds)*	60				
Ping Interval for Out-of-service Trunks (seconds)*	120				
Ping Retry Timer (milliseconds)*	500				
Ping Retry Count*	6				
SDP Information					
Send send-receive SDP in mid-call INV	ITE				
Allow Presentation Sharing using BFCP					
Allow iX Application Media					
Allow multiple codecs in answer SDP					

Figure 35: SIP Profile Configuration – Cont.



SIP Trunk to Cisco UBE Configuration

Navigation: Device → Trunk

Set Device Name* = cox_trunk. This is used for this example

Set Description = cox trunk. This is used for this example

Set Media Resource Group List = MRGL_MTP

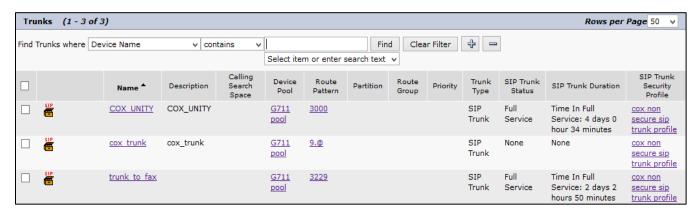


Figure 36: SIP Trunk List



-SIP Trunk Status		
Service Status: Full Service		
Duration: Time In Full Service: 0 day	y 0 hour 44 minutes	
- Device Information -		
Product:	SIP Trunk	
Device Protocol:	SIP	
Trunk Service Type	None(Default)	
Device Name*	cox_trunk	
Description		
Device Pool*	G711 pool ▼	1
Common Device Configuration	< None > ▼	j
Call Classification*	Use System Default ▼	
Media Resource Group List	MRGL_MTP ▼	
Location*	Hub_None ▼	
AAR Group	< None > ▼	
Tunneled Protocol*	None ▼	
QSIG Variant*	No Changes ▼	
ASN.1 ROSE OID Encoding*	No Changes ▼	
Packet Capture Mode*	None ▼	j
Packet Capture Duration	0	
Media Termination Point Required		
Retry Video Call as Audio		
Path Replacement Support		
Transmit UTF-8 for Calling Party Name		
Transmit UTF-8 Names in QSIG APDU		
Unattended Port		
	I, Encrypted TLS needs to be configured in the network to	o provide end to end security.
Consider Traffic on This Trunk Secure*	When using both sRTP and TLS	
Route Class Signaling Enabled*	Default	
Use Trusted Relay Point*	Default ▼	
✓ PSTN Access		
Run On All Active Unified CM Nodes		
T-1		
Intercompany Media Engine (IME)		
E.164 Transformation Profile < None >	▼	

Figure 37: SIP Trunk to CUBE



Set Significant Digits* = 4. 4 digits Extension for all CPE phones

MLPP Domain								
FILE F Dominant	< 1	None >		▼				
Confidential A	Access Mode < N	None >		▼				
Confidential A	Access Level < N	None >		_				
Call Routing	Information—							
Remote-Pa	arty-Id							
Asserted-I	Identity							
Asserted-Type	e* Default			•				
SIP Privacy*	Default			•				
┌Inbound Ca	alls———							
Significant D	igits*	4			Ţ			
Connected Line ID Presentation*		tion* Defa	Default ▼					
Connected Name Presentation*		on* Defa	Default ▼					
Calling Search Space		< No	< None > ▼					
AAR Calling Search Space		< No	< None > ▼					
Prefix DN								
Redirecti	ing Diversion He	ader Deliv	ery - Inbound					
	lling Party Sett							
	istrator sets the							
(DevicePool/			Default this indicates of rwise, the value config	pured is used as the	prefix unless the field		h case	
(DevicePool/	Service Parame			pured is used as the			h case	
(DevicePool/	Service Parame	ter). Other	rwise, the value config	pured is used as the	prefix unless the field		Use Device Pool CSS	
(DevicePool/ there is no p	/Service Parame prefix assigned.	ter). Other	rwise, the value config	pured is used as the	prefix unless the field		Use Device Pool	
(DevicePool/ there is no p Number Type Incoming Number	/Service Parame/ prefix assigned. Prefix Default	ter). Other	Clear Prefix Setting	pured is used as the Default Pre	prefix unless the field	I is empty in whic	Use Device Pool CSS	
(DevicePool/ there is no p Number Type Incoming Number Incoming Cal If the admini (DevicePool/	Prefix Default Iled Party Setti istrator sets the	ings prefix to D	Clear Prefix Setting	Default Pre C < None >	fix Settings alling Search Space	I is empty in which	Use Device Pool CSS	
(DevicePool/ there is no p Number Type Incoming Number Incoming Cal If the admini (DevicePool/	Prefix Default Illed Party Setti istrator sets the /Service Parame/	ings prefix to D	Clear Prefix Settin Strip Digits 0 Default this indicates of	Default Pre C < None > all processing will us pured is used as the	fix Settings alling Search Space	I is empty in which	Use Device Pool CSS	
(DevicePool/ there is no p Number Type Incoming Number Incoming Cal If the admini (DevicePool/	Prefix Default Illed Party Setti istrator sets the /Service Parame/	ings prefix to Deter). Other	Clear Prefix Settin Strip Digits 0 Default this indicates of rwise, the value configurations.	Default Pre C < None > all processing will us pured is used as the Default Pre Default Pre	fix Settings alling Search Space e prefix at the next le	I is empty in which	Use Device Pool CSS	

Figure 38: SIP Trunk to CUBE Configuration – Cont.



Set Destination Address = 10.80.13.20 .IP address of the CUBE

Set SIP Trunk Security Profile = Cox Non Secure SIP Trunk Profile. SIP Trunk Security Profile configured earlier

Set SIP Profile = Cox SIP Profile. SIP Profile configured earlier

DTMF Signaling Method = RFC 2833. RFC 2833 is supported for DTMF transport to/from Cox

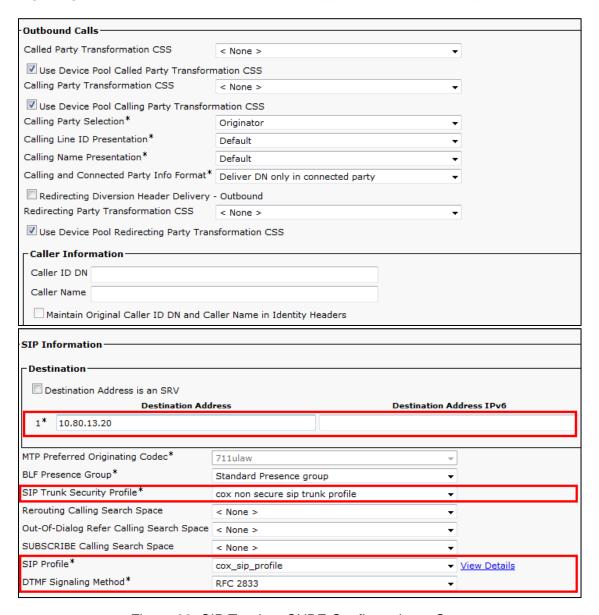


Figure 39: SIP Trunk to CUBE Configuration – Cont.



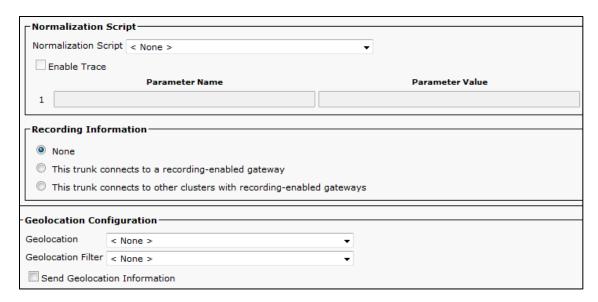


Figure 40: SIP Trunk to CUBE Configuration – Cont.

^{*}Reset the trunk after the configuration is completed. Apply same procedure to create SIP trunks to Cisco Unity Connection.



SIP Trunk to Fax Gateway Configuration

Navigation: Device → Trunk

Set Device Name* = trunk_to_fax. This is used for this example

Set Media Resource Group List = MRGL MTP

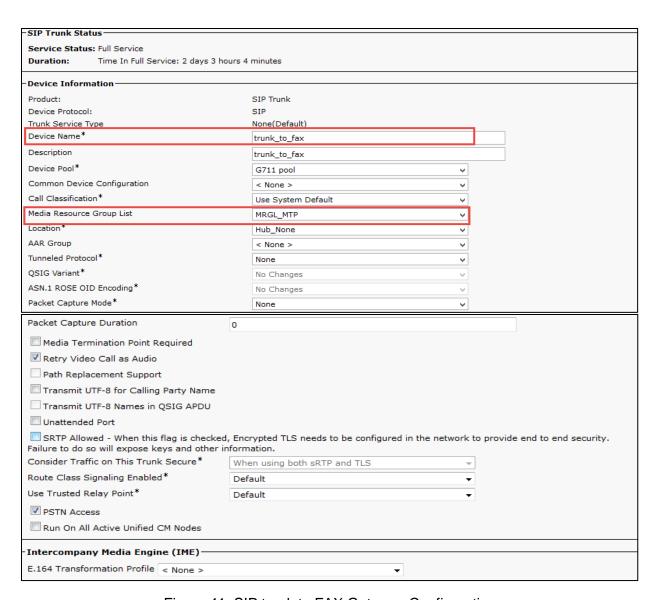


Figure 41: SIP trunk to FAX Gateway Configuration



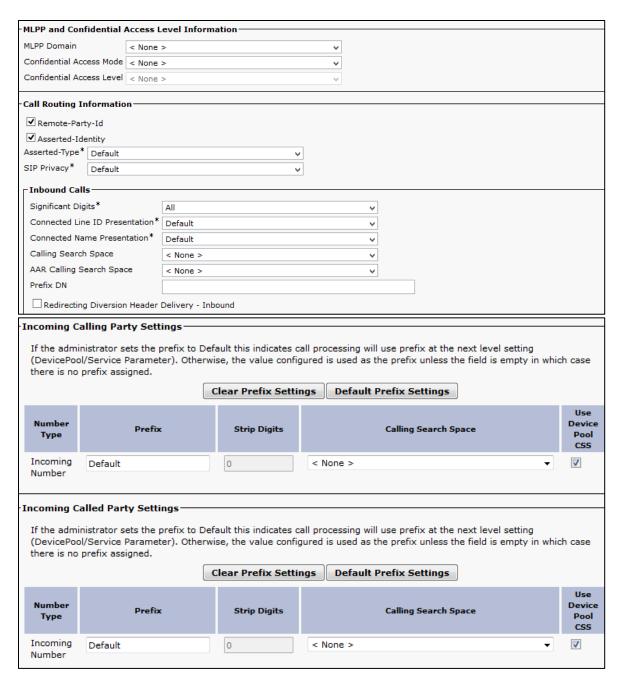


Figure 42: SIP Trunk to FAX Gateway Configuration - Cont.



Set Destination Address = 172.16.31.50 .IP address of the FAX Gateway Set SIP Trunk Security Profile = Cox Non Secure SIP Trunk Profile. SIP Trunk Security Profile configured earlier

Set SIP Profile = Cox SIP Profile. SIP Profile configured earlier

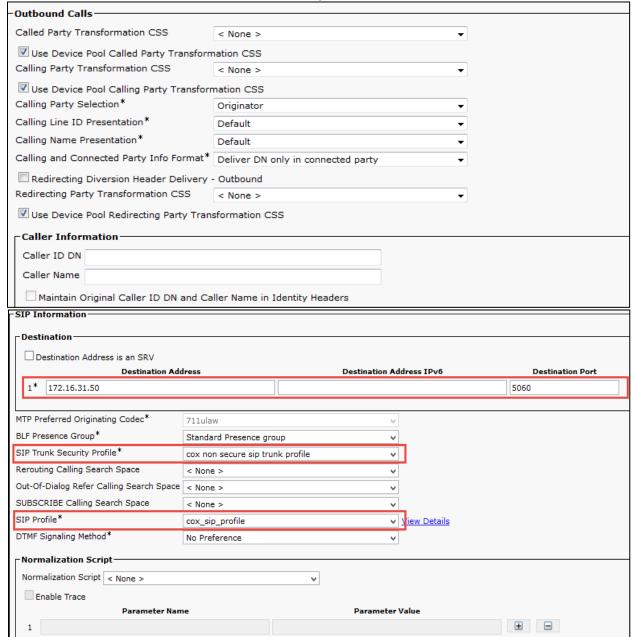


Figure 43: SIP Trunk to FAX Gateway Configuration – Cont.



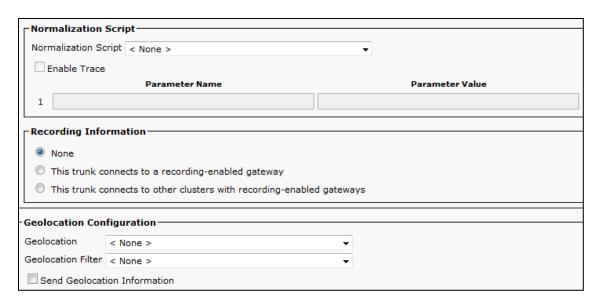


Figure 44: SIP Trunk to Fax Gateway Configuration - Cont.

^{*}Reset the trunk after the configuration is completed. Apply same procedure to create SIP trunks to Cisco Unity Connection.



SIP Trunk to CUC

Navigation: Device → Trunk

Set Device Name* = COX_UNITY. This is used for this example Set Device Pool* = G711 pool. This is used for this example

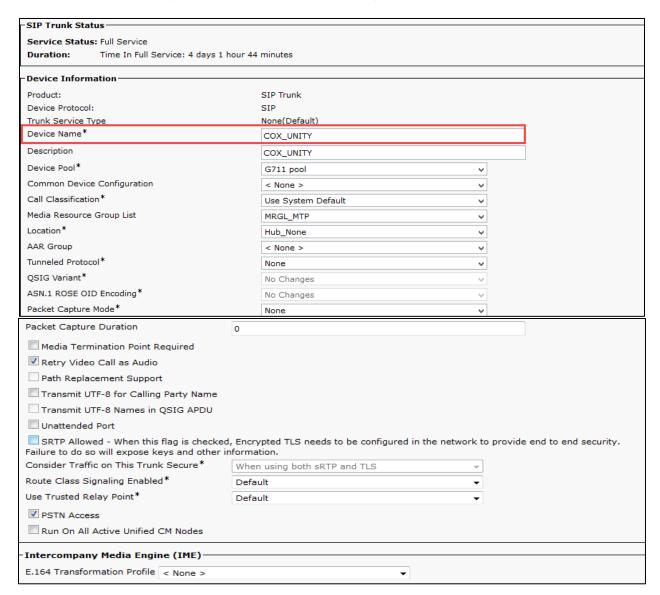


Figure 45: SIP Trunk to Unity



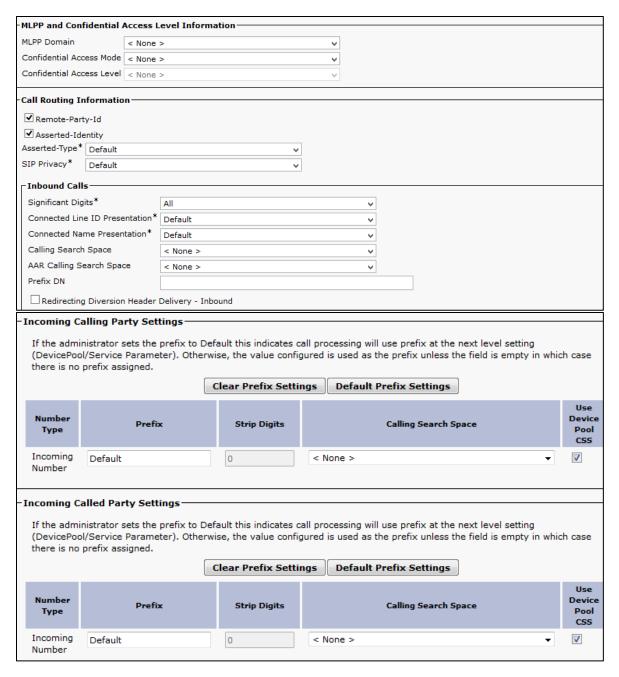


Figure 46: SIP Trunk to Unity – Cont.



Set Destination Address = 10.80.13.4 .IP address of the Unity
Set SIP Trunk Security Profile = Cox Non Secure SIP Trunk Profile. SIP Trunk Security Profile configured earlier

Set SIP Profile = Cox SIP Profile. SIP Profile configured earlier

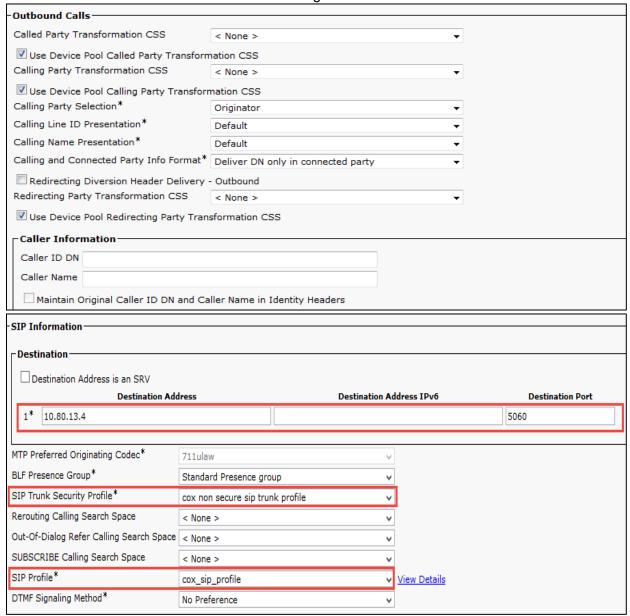


Figure 47: SIP Trunk to Unity – Cont.



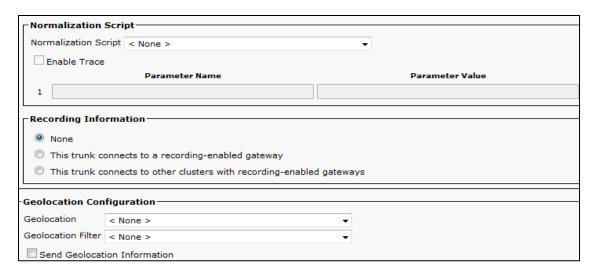


Figure 48: SIP Trunk to Unity - Cont.

^{*}Reset the trunk after the configuration is completed. Apply same procedure to create SIP trunks to Cisco Unity Connection.



Voicemail Pilot Configuration

Navigation: Advanced Features → Voice Mail → Voice Mail Pilot

Set Voice Mail Pilot Number =3000. This is used for this example Set Description = Pilot to Unity. This is used for this example.

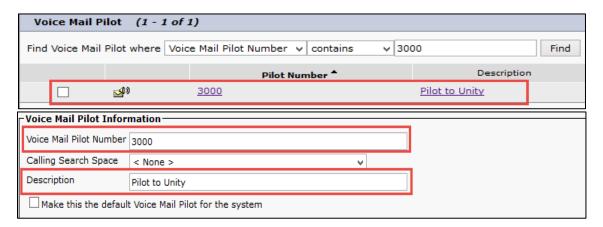


Figure 49: Voicemail Pilot Configuration

Voicemail Profile Configuration

Navigation: Advanced Features → Voice Mail → Voice Mail Profiles

Set Voice Mail Profile Name* =SIP. This is used for this example Set Description = SIP TO UNITY. This is used for this example Set Voice Mail Pilot** = 3000. This is used for this example

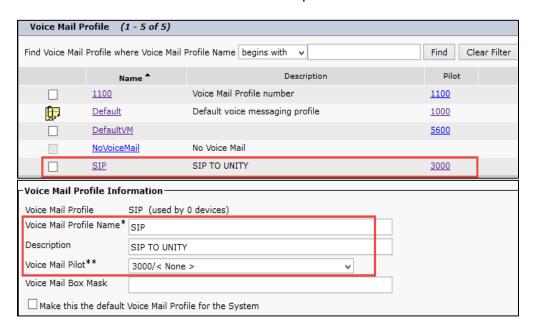


Figure 50: Voicemail Profile Configuration



Route Pattern Configuration

Navigation: Call Routing → Route/Hunt → Route Pattern

Route patterns are configured as below:

- Cisco IP phones dial 9+10 digits number to access PSTN via CUBE
- "9" is removed before send to CUBE
- For FAX call, Access Code 9 is used at fax gateway
- "9" is removed at UCM and 10 digits number is send to CUBE to Cox network
- Incoming fax call to 3229 will send to fax gateway
- 3000 is the Pilot Number for voicemail to Unity Connection



Figure 51: Route Patterns

Set Route Pattern* =9.@ for Voice call ,3000 for Unity and 3229 for the Fax call. Specify appropriate Route Pattern

Set Gateway/Route List* = cox_trunk. SIP Trunk name configured earlier
Discard Digits = PreDot. Specifies how to modify digit before they are sending to Cox ESBC

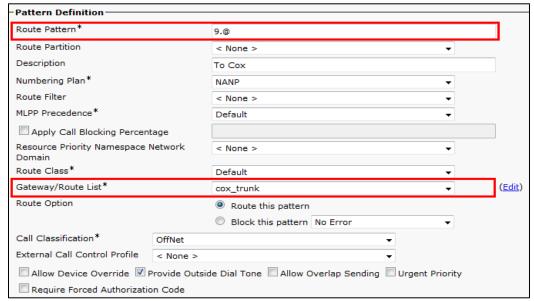


Figure 52: Route Patterns for Voice



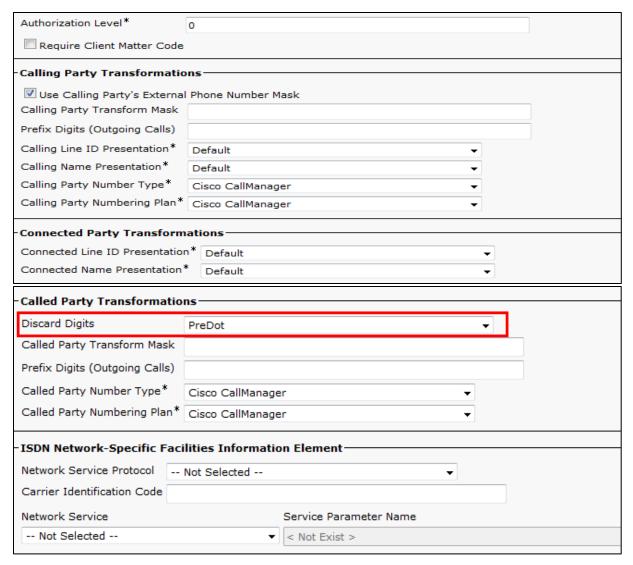


Figure 53: Route Patterns for Voice - Cont.



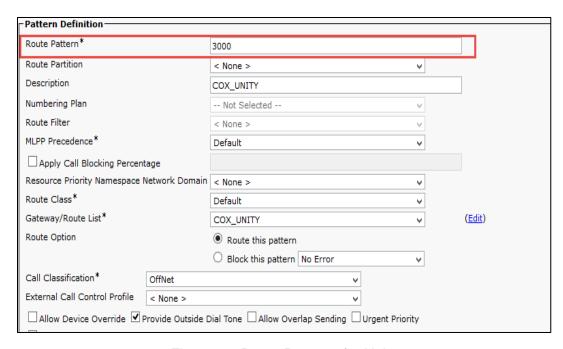


Figure 54: Route Patterns for Unity



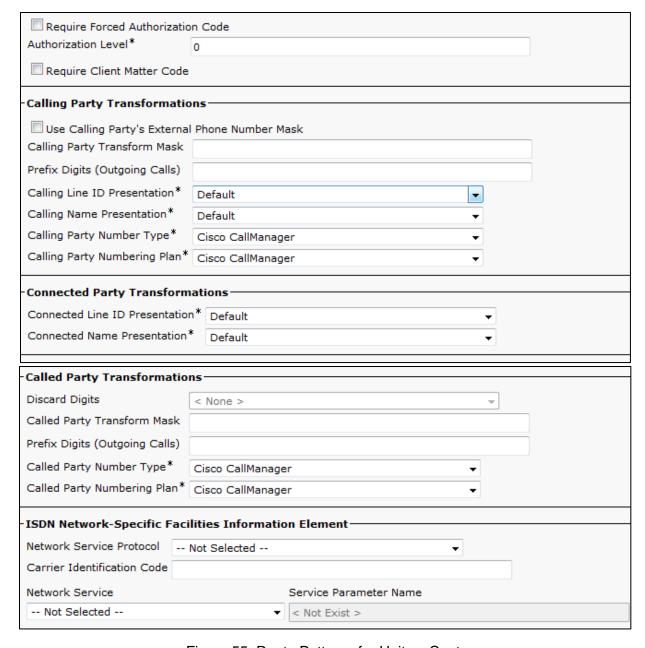


Figure 55: Route Patterns for Unity – Cont.



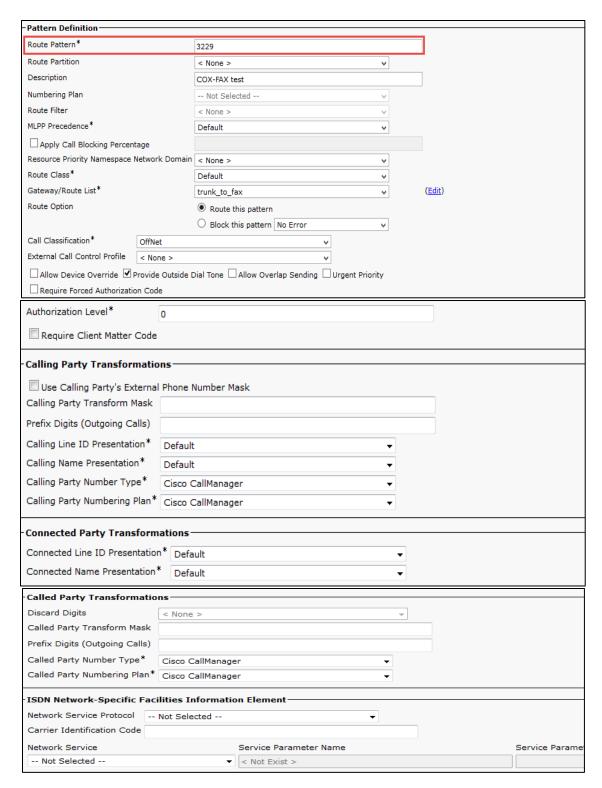


Figure 56: Route Patterns for Fax



FAX Gateway Configuration

```
cme.in.tekvizion.com#sh running config
version 15.1
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
hostname cme.in.tekvizion.com
boot-start-marker
boot-end-marker
aaa new-model
aaa authentication login local_auth local
aaa session-id common
clock timezone IST 5 30
network-clock-participate wic 2
network-clock-participate wic 3
dot11 syslog
ip source-route
ip cef
```



```
!
ip host Clus1-862-Pub 172.16.26.2
no ipv6 cef
multilink bundle-name authenticated
isdn switch-type primary-qsig
voice rtp send-recv
voice service pots
voice service voip
no ip address trusted authenticate
allow-connections sip to sip
no supplementary-service sip handle-replaces
redirect ip2ip
fax protocol pass-through g711ulaw
sip
 g729 annexb-all
voice class codec 3
codec preference 1 g711ulaw
!
voice-card 0
!
crypto pki token default removal timeout 0
!
```



```
license udi pid CISCO2851 sn FHK7867F4LY
username cisco password 0
interface GigabitEthernet0/0
ip address 172.16.31.50 255.255.255.0
duplex auto
speed auto
interface GigabitEthernet0/1
no ip address
ip nat outside
ip virtual-reassembly in
shutdown
duplex auto
speed auto
ip forward-protocol nd
ip http server
no ip http secure-server
!
ip route 0.0.0.0 0.0.0.0 172.16.31.1
access-list 1 permit 172.16.31.0 0.0.0.255
!
snmp-server community public RO
snmp-server location Chennai
control-plane
```



```
!
voice-port 0/1/1
cptone IN
station-id number
caller-id enable
dial-peer voice 777 pots
huntstop
destination-pattern 3229
port 0/1/1
forward-digits all
dial-peer voice 9224 voip
description CUCM to Gateway
session protocol sipv2
session transport udp
incoming called-number 3229
voice-class codec 3
dtmf-relay rtp-nte
fax-relay ecm disable
fax rate disable
fax protocol pass-through g711ulaw
no vad
dial-peer voice 92240 voip
description Gateway to CUCM
destination-pattern 9T
session protocol sipv2
session target ipv4:10.80.13.2
```



```
session transport udp
voice-class codec 3
dtmf-relay rtp-nte
fax-relay ecm disable
fax rate disable
fax protocol pass-through g711ulaw
no vad
gateway
timer receive-rtp 1200
sip-ua
retry register 5
timers connection aging 30
timers update 1000
no timers hold
timers register 1000
!
line con 0
line aux 0
line 66
no activation-character
no exec
transport preferred none
transport input all
transport output pad telnet rlogin lapb-ta mop udptn v120 ssh
line 194
```



no activation-character
no exec
transport preferred none
transport input all
transport output all
line vty 0 4
session-timeout 180
exec-timeout 0 0
password
login authentication local_auth
transport input all
!
scheduler allocate 20000 1000
ntp server
end



Cisco UCM SIP Integration with Cisco Unity Connection (CUC) **CUC Version**

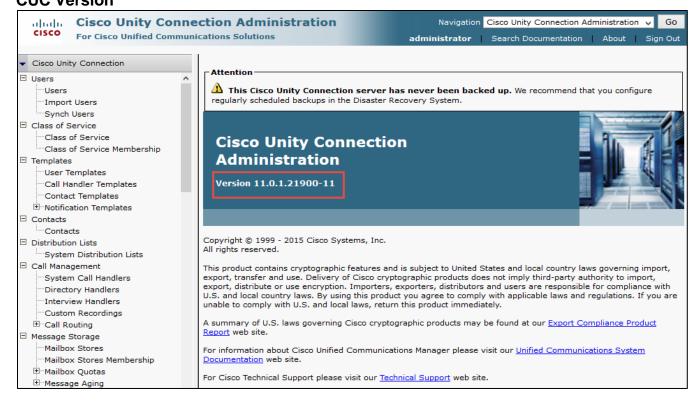


Figure 57: CUC Version



CUC Telephony Integration with Cisco UCM

Navigation: Telephony Integrations → Phone system Set Phone System Name* = COX. This is used for this example



Figure 58: CUC Phone System

CUC Port Group

Navigation: Telephony Integration → Port Group

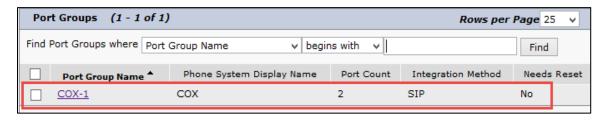


Figure 59: CUC Port Group



Set Display Name* = COX-1. This is used in this example Set Integration Method = SIP Check "Enable Message Waiting Indicator Settings "box

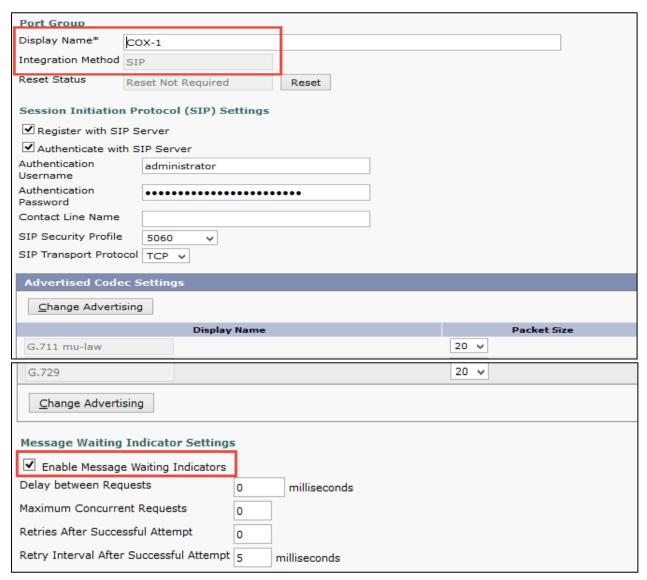


Figure 60: CUC Port Group - Cont.



CUC Port Settings

Navigation: Telephony Integration → Port

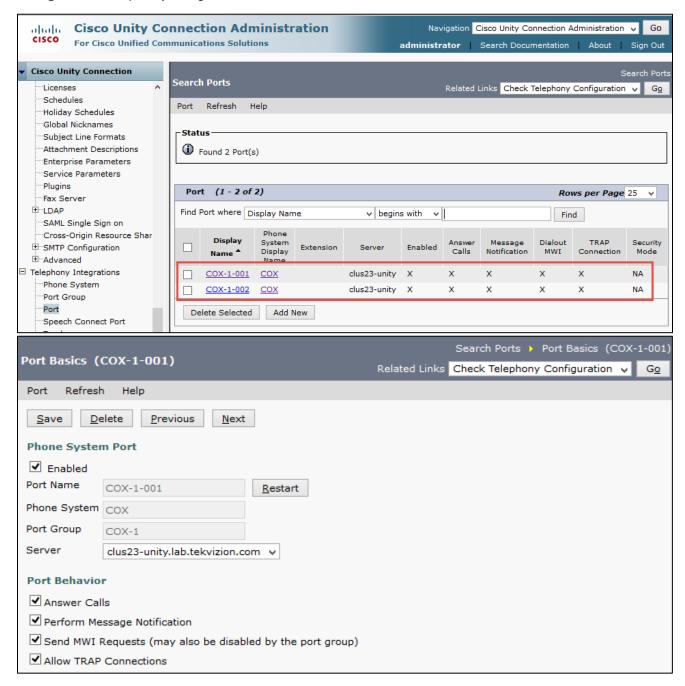


Figure 61: CUC Port Settings



CUC Sample User Basic Settings

Navigation: Cisco Unity Connection → Users → Users

Set Alias = 1399 is one of the extensions used for this testing Set Extension = 1399 is used for this example Set Partition = clus23-unity Partition is used for this example Select Search Space = clus23-unity Search Space Set Phone System = COX

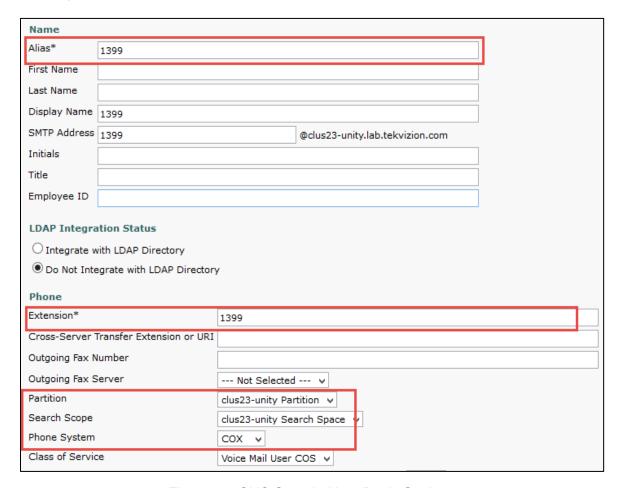


Figure 62: CUC Sample User Basic Settings



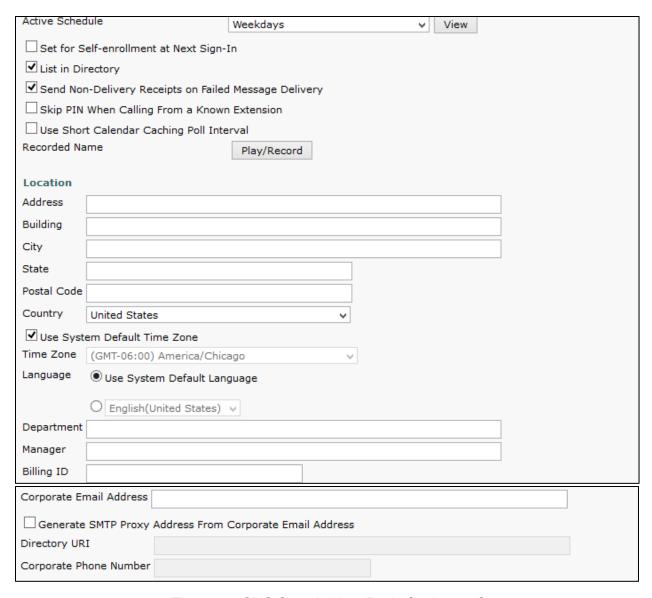


Figure 63: CUC Sample User Basic Settings - Cont.

Acronyms

Acronym



CPE	Customer Premise Equipment
CUBE	Cisco Unified Border Element
CUCM	Cisco Unified Communications Manager
MTP	Media Termination Point
POP	Point of Presence
PSTN	Public Switched Telephone Network
ESBC	Enterprise Session Border Controller
SCCP	Skinny Client Control Protocol
SIP	Session Initiation Protocol

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