

Cisco Unified Call Manager

Configuration Guide

This document is intended to provide guidelines on how to configure AtlasIED IPX Series Speakers to Cisco Unified Call Manager. The IP addresses or FQDNs mentioned in this guide are intended to provide an idea of the setup using one of the UCM environments here in the lab. Please substitute the IP addresses or FQDNs for trunks/Gateways (public or private) and the termination end point IP address from service provider accordingly.

Deployment Topology



Building the Phone Device on CUCM

This section describes how to configure a third-party device on the UCM.

In the menu tab, select Device > Phone. Click the Add New button.

ind and List Phones	CTI R	oute Point
Add New C Add New From Template	Gatek Gatew Phone	eeper ay
Find Phone where Device Name V begins with V	Trunk Remo Device	te Destination e Settings

Within Phone Type, select Third-party SIP Device (Basic). Click next.

J Status: Ready		
Create a phone using	the phone type or a phone template	
Start by selecting the	type of phone you wish to add, or <u>click here to add</u>	<u>a new ph</u>
Start by selecting the Phone Type*	type of phone you wish to add, or <u>click here to add</u>	a new ph
Start by selecting the Phone Type* or	type of phone you wish to add, or <u>click here to add</u> Third-party SIP Device (Basic)	a new ph





Following basic phone/end user configuration procedures, input the device MAC address in the MAC Address field and choose the desired Device Pool, e.g. 'Default'. For the Phone Button Template, select Third-Party SIP Device (Basic). Set Owner to Anonymous. This will be changed later and set to the end user profile built later in this guide. CUCM uses this setting to verify the device.

Phone Type Product Type: Third-party SIF Device Protocol: SIP	P Device (Basic)		
Real-time Device Status Registration: Unknown IPv4 Address: None			
Device Information			
MAC Address*	XXXXXXXADF3		E
Description	SEPXXXXXXXXadf3		F
Device Pool*	Default	~	Vie
Common Device Configuration	< None >	~	Vie
Phone Button Template*	Third-party SIP Device (Basic)	~	j
Common Phone Profile*	Standard Common Phone Profile	~) <u>Vie</u>
Calling Search Space	< None >	~]
AAR Calling Search Space	< None >	~]
Media Resource Group List	< None >	~)
Location*	Hub_None	~]
AAR Group	< None >	~	j
Device Mobility Mode*	Default	~) <u>Vie</u>
Owner	🔿 User 💿 Anonymous (Public Sł	hared Space)	
Owner User ID		· · · · · · · · · · · · · · · · · · ·	

Set Device Security Profile to Third-party SIP Device Basic – Standard SIP Non-Secure Profile. Set Sip Profile to desired profile. Default is 'Standard SIP Profile'.

BLF Presence Group*	Standard Presence group	~
MTP Preferred Originating Codec*	711ulaw	~
Device Security Profile*	Third-party SIP Device Basic - Star	ndard SIP Non-Se 🗸
Rerouting Calling Search Space	< None >	~
SUBSCRIBE Calling Search Space	< None >	~
CID Drofile*	Standard SIR Profile	~
SIP Prome	Stanuaru SIF Frome	1975

-Association-

Click Line [1] - Add a new DN, input the desired DN for the device. Save & Apply Config.

1	Modify Button Items
Save Delete C	Reset 🖉 Apply Config
Directory Number Inform	2634
Route Partition Description Alerting Name	< None >
ASCII Alerting Name External Call Control Profile	None >

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Building the End User Configuration on CUCM

This section describes how to create an end user profile for the third-party device and associate it with the device configuration.

In the menu tab, select User Management > End User. Click the Add New button.

System - Call Routing - Media Resources - Advanced Features - Device - Application -	User Management 👻 Bull
Find and List Users	Application User
Add Now Escloret All E Clore All Delete Selected	End User
Status	User/Phone Add SIP Realm User Settings Self-Provisioning Assian Presence Users
User (1 - 50 of 58)	
Find User where First name V begins with V	Find Clear Filter

Enter a unique User ID, e.g., 'help'. Enter and confirm a Password, PIN, and Digest Credentials. In the Self-Service User ID, input the DN given for 'Line 1' in previous section. Enter a unique Last Name. Save.

Status	
i Status: Ready	
-User Information	
User Status	Enabled Local User
User ID*	help
Password	•••••
Confirm Password	••••••
Self-Service User ID	2634
PIN	•••••
Confirm PIN	•••••
Last name *	help
Middle name	
First name	
Display name	
Title	
Directory URI	
Telephone Number	
Home Number	
Mobile Number	
Pager Number	
Mail ID	
Manager User ID	
Department	
User Locale	< None >
Associated PC/Site Code	
Digest Credentials	•••••••••••••••••••••••••••••••••••••••
Confirm Digest Credentials	•••••••••••••••••••••••••••••••••••••••

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Scroll down to the Device Information section, click the Device Association tab. In the new tab that opens, search for the Device created earlier in the previous section. Click it and save.



The photo above is the tab that opens once the Device Association tab is clicked.

In the Directory Number Associations section, click Primary Extension and choose the DN assigned to the Device. Save.

P	rimary Extension 2634
	End User Configuration
	🔚 Save 🗶 Delete 🕂 Add New
	Status
	Status: Ready

Associating Device to End User Profile and Final Tweaking

This section shows how to assign and associate the End User Profile to the Device.

Set the Owner setting back to User and within the Owner User ID field, click the drop down bar and choose the 'End User ID' created in previous section.

Owner	User O Anonymous (Public/Shared Space)
Owner User ID*	help

Set Digest User to the 'End User ID' created earlier. Save & Apply.

Protocol Specific Information -							
BLF Presence Group*	Standard Presence group						
MTP Preferred Originating Codec* Device Security Profile* Rerouting Calling Search Space	711ulaw Third-party SIP Device Basic - Standard SIP M < None >						
				SUBSCRIBE Calling Search Space	< None >		
				SIP Profile*	Standard SIP Profile		
Digest User	help						

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Configurations in AtlasIED GUI

This section describes how to configure AtlasIED IPX Series Speakers and register to CUCM.

After logging in, click the Services tab on the top menu bar.

Atlas IED III) IP-ZCM v15.2.1				
Status	Network	Hardware	Services	
Status		1	₽ Reboot	@ H
Product Status	Model IP-ZCM	IPv4 Netwo	ork Status Address mode	DHCP

In the SIP Service field, check the Enable radio box and press the arrow button to extend the menu.

Status	Network		Hardware	Services	
Service Settings			🖺 Save	2 Reboot	⑦ Help
SIP Service	Enable		NightRin	ger Service	Enable
Priority	•	0	Lo	gic output 1 activation	Always
Playback volume (0-100)	-	20		Play audio file	
Microphone gain (0-100)		7 0			
E	-		Syn-App	os Service Notifier Address	Enable

Set both the Host & Registrar ID fields with the IP of the CUCM the device will be registered to. In the User ID field, input the DN assigned to the device in the CUCM, e.g. '2634'. In the Auth ID field, use the unique User ID name given in CUCM, e.g. 'help'. For the Auth secret, give the password assigned in CUCM End User config. Lastly, for the Digest Realm field, give the digest realm configured for the CUCM. The default is 'ccmsipline'. Once this is done, click Save & Reboot.

Status	Network	Hardware	Services	
Service Settings		🖺 Save	2 Reboot	⑦ Help
Microphone gain (0-100)	70			
A		Syn-Ap	Syn-Apps Service	
			Notifier Address	
Server 1			Volume Offset	_
Host	XX.XX.XX.10		Priority Strobing	Enable
User ID	2634		Priority	•
Registrar Id	XX.XX.XX.10		Red flasher priority	•
Auth ID	help		Green flasher priority	•
Auth secret	123456		Blue flasher priority	•
Digest Realm	ccmsipline		LCD Color by Priority	
		No f	Itore	

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