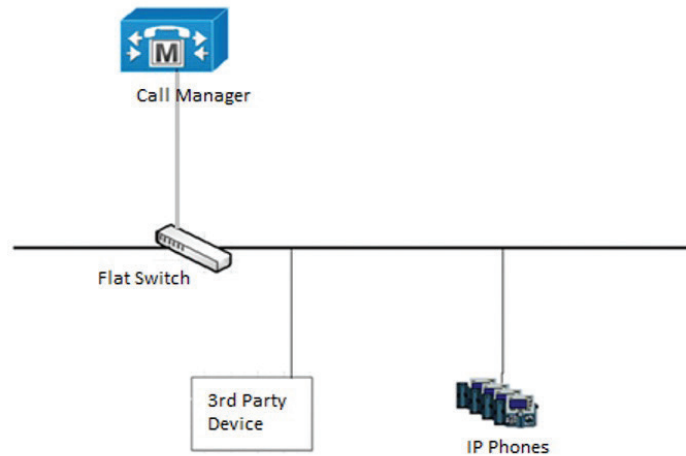


Cisco Unified Call Manager

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.

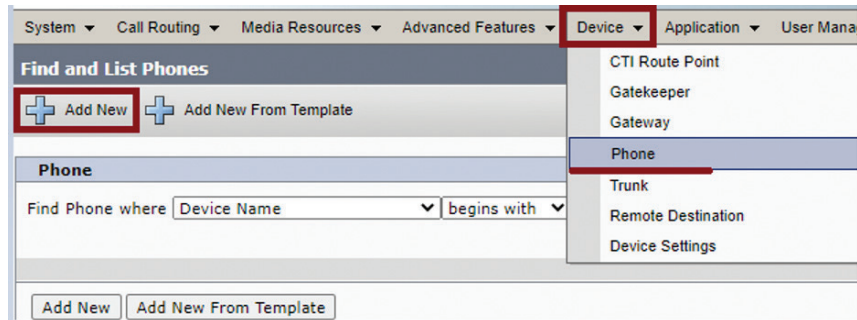
Deployment Topology



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.



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



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 SIP Device (Basic)
Device Protocol:	SIP
Real-time Device Status	
Registration:	Unknown
IPv4 Address:	None
Device Information	
<input checked="" type="checkbox"/> Device is Active	
<input type="checkbox"/> Device is not trusted	
MAC Address*	XXXXXXXXADF3
Description	SEPXXXXXXXXXadf3
Device Pool*	Default View
Common Device Configuration	< None > View
Phone Button Template*	Third-party SIP Device (Basic)
Common Phone Profile*	Standard Common Phone Profile View
Calling Search Space	< None >
AAR Calling Search Space	< None >
Media Resource Group List	< None >
Location*	Hub_None
AAR Group	< None >
Device Mobility Mode*	Default View
Owner	<input type="radio"/> User <input checked="" type="radio"/> Anonymous (Public Shared 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'.

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

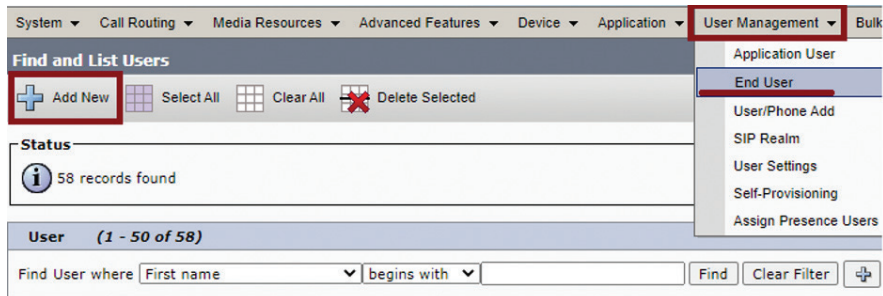
Click Line [1] – Add a new DN, input the desired DN for the device. Save & Apply Config.

Association	
Modify Button Items	
1	Line [1] - Add a new DN
<input type="button" value="Save"/> <input checked="" type="button" value="Delete"/> <input type="button" value="Reset"/> <input checked="" type="button" value="Apply Config"/> <input type="button" value="Add New"/>	
Status	
Update successful	
Directory Number Information	
Directory Number*	2634
Route Partition	< None >
Description	
Alerting Name	
ASCII Alerting Name	
External Call Control Profile	< None >

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.



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.

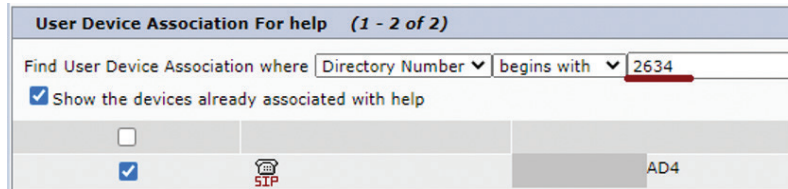
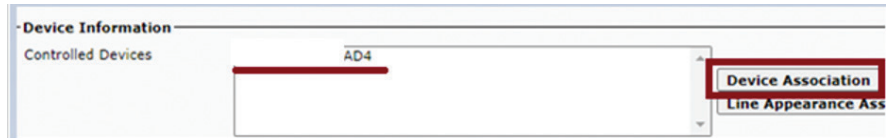
Status

i Status: Ready

User Information

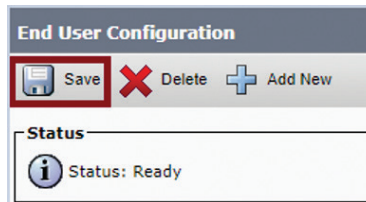
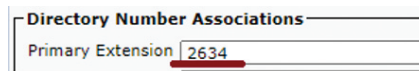
User Status	Enabled Local User
User ID *	help
Password
Confirm Password
Self-Service User ID	2634
PIN
Confirm PIN
Last name *	help
Middle name	
First name	
Display name	
Title	
Directory URI	
Telephone Number	
Home Number	
Mobile Number	
Pager Number	
Mail ID	
Manager User ID	
Department	
User Locale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

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.

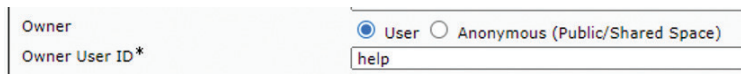
In the Directory Number Associations section, click Primary Extension and choose the DN assigned to the Device. Save.



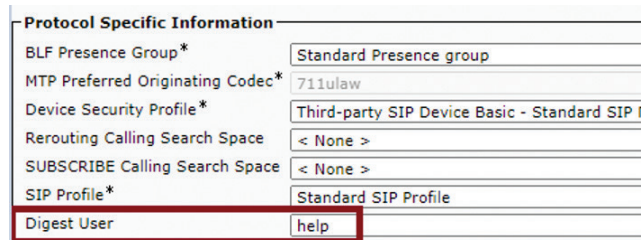
Associating Device to End User Profile and Final Tweaking

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.



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



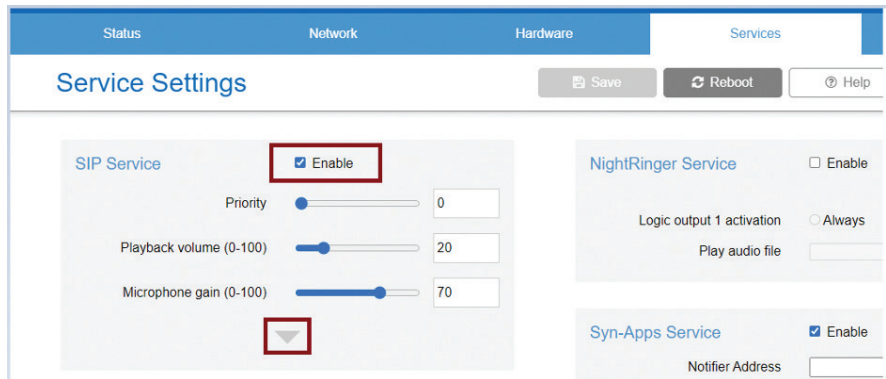
Configurations in AtlasIED GUI

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.



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



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.

