CloudUCM – Endpoint Configuration Guide

CloudUCM is a cloud PBX that integrates audio and video calls and collaborative work. Users can register extensions on terminals for communication, including using Grandstream IP phones, Wave Desktop applications, Wave Web clients, and Wave mobile applications for calls/meetings, chats, remotely managing and synchronizing extensions, cloud storage, alerts, statistics reports, etc.

This document describes how to configure CloudUCM services on IP phones so that users can register with CloudUCM on external and internal networks.

Configuring SIP Accounts on End Devices

IP phones can be registered to the CloudUCM in external and internal network environment for internal communication and remote communication.

Method 1: Configure SIP Account from End Device Web User Interface

In this method, the user needs to configure the SIP server on the end device web GUI using the CloudUCM SIP Server Address and configure NAT to STUN. For SIP transport protocol, it must be set to TLS using TLS version 1.2 or 1.3.

Please refer to the below configuration example on GRP2604P.

Step 1: Log in GRP2604P web UI as admin, navigate to Account->Basic Settings page and configure the following:

- SIP Server: Enter the CloudUCM SIP Server Address. This information can be found under UCM Web GUI -> CloudUCM Plan page.
- NAT Traversal: STUN

neral Settings SIP Settings Codec Settings Call Settings	Advanced Settings Dial Plan Hidden Number Pla	n Feature Codes
SIP Server @	xxx a myurm com·5061	
Secondary SID Secure (2)		
Secondary air Server		
Outbound Proxy ③		
Secondary Outbound Proxy ③		
SIP User ID (2)	1111	
SIP Authentication ID 💿	1111	
SIP Authentication Password (2)	•••••	
Name 🕐		
Tel URI 🥑	Disabled	
Voicemail Access Number 🎯	*97	
BLF Server (2)		
Account Display ③	Username	
UCM User Password @	Sect	
letwork Settings		
DNS Mode 🕥	A Record	
NAT Traversal @	CTUN	

Step 2: Go to Account \rightarrow SIP Settings and configure SIP transport to "TLS" or "TLS/TCP".

Account 1	Account 2	Account 3 Account 3	Account 4	Account 5	Account 6		
General Settings	SIP Settings	Codec Settings	Call Settings	Advanced Settings	Dial Plan	Hidden Number Plan	Feature Codes
	l	Jse P-Emergency-I	nfo Header 🕥	-			
	U	se P-Asserted-Ider	ntity Header 🎯				
		Use P-Early-Me	edia Header 🎯				
	Use Zoom I	E911 X-switch-info	SIP Header 🕥				
		Use N	MAC Header 🕥	No		v	
		Add MAC in	User-Agent 💿	No		v.	
		SI	P Transport 🕥	TLS/TCP		×]	
		Enable TCF	P Keep-alive 🎯	2			
		SIP List	ening Mode ⊘	Transport Only		V.	
		Lo	cal SIP Port 🕥	5070			
	SIP	URI Scheme Whe	n Using TLS 🞯	sips		v	

Step 3: Go to Account -> SIP Settings page, you can configure REGISTER Expiration, SUBSCRIBE Expiration, and Session Timer following the configurations below. The configurations are not required, but if your network is unstable, it is recommended to configure those settings, so that the CloudUCM services will be more stable.

Session Timer

Enable Session Timer ③	
Session Expiration ③	600
Min-SE 💿	90
Caller Request Timer ⊘	
Callee Request Timer ③	
Force Timer ⊘	
UAC Specify Refresher ⊘	UAC v
UAS Specify Refresher ③	UAS v
Force INVITE ⊘	
	Save Save and Apply Reset

REGISTER Expiration	3600
SUBSCRIBE Expiration	3600

Enable Session Timer	Yes
Session Expiration	600
Min-SE	90
Caller Request Timer	Yes
Callee Request Timer	Yes
UAC Specify Refresher	UAC
UAS Specify Refresher	UAS

Step 4: Go to the phone's web UI→System Settings→Security Setting→TLS page, configure "Minimum TLS Version" and "Maximum TLS Version" to be 1.2 or 1.3

	Info Management Client Certificate	Trusted CA Certificates Keypad Lock	
TLS Version			
	Minimum TLS Version ③	TLS 1.2	Ŷ
	Maximum TLS Version ③	TLS 1.3	Ŷ
SIP TLS Certificate			
	Enable/Disable Weak Cipher Suites 📀	Enable Weak TLS Ciphers Suites	Ý
	SIP TLS Certificate 💿		

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Method 2: Assign SIP Account for End Device from GDMS

In this method, user needs to log in GDMS to assign SIP account to the end device.

Step 1: Add the end device as VOIP Device to GDMS. Click on "Save" to save the configuration.

Device Name	Enter Device Name (up to 64 char	acters)
* MAC Address		: ::
* S/N	Enter S/N	
* Site	Default	U.
nc configuration		



Note

- Each end device can only be added to **ONE** GDMS account at a time.
- Users can use the "Device Name", "MAC Address", or "Site Name" to search for the end device.

Step 2: There are two methods to assign the SIP accounts for the end device on GDMS.

Assign Method (1): Configure SIP Accounts from VoIP Device Page

- 1. In the VoIP Device Page, click on & to enter the Account Configuration page.
- 2. In this page, users can choose to deploy the extensions from the Extension page to the device. They can also change the existing extension to another or remove existing extensions.
- 3. Save and apply the configuration.

CloudUCM System					🧟 Plans & Servi	ices 💿 World 🕴 yiluo 🗸
Ø Dashboard	VoIP Device > Ac	count Configuration (CO	:74:AD:23:A8:B6	C0:74:AD:23:A8:B6)		
♣ Organization ⇒	Account	User ID		Server Name	Server Address	
() Overview	Account1		Ŷ		0.0.0.0	
<u>़</u> Extension	Account2		Ÿ		0.0.0.0	
🖹 CloudUCM Device	Account3	Select	~		0.0.0.0	
	Account4	Select	~		0.0.0.0	
LL Call Quality						
総 Device Template シー						

Note

- If the device becomes offiine during the account deployment, GDMS will push the settings once the devices comes back online.
- Configurations from other methods such as via phone's web UI, Zero Config, etc... will not sync to GDMS.

Assign Method (2): Assign SIP Account from Extension Page

Account N	ame 1020		
* SIP Us	er ID 1020		
SIP Authenticatio	on ID 1020		
SIP Authentication Pass	word	5.0°	
Display N	ame Sadie Adler		
Voicemail Access Numb	er 😡		
+ SIP S	UCM_demp(UDP) (192.168.5.61.5060)	~ 0	
	UCM_demp(TLS) (5061)	~ 0	
	Add Server		
Assign D	evice UCM_demo V GRP2603	GRP26(V Account1	 ✓ UCM_demp(TLS) → ✓
	Add		

Step 2: Click the "Add Server" button and select the server address that the user wants to add for the extension.

Step 3: Assign the server to the phone. Select the site, device, MAC address, account location and the CloudUCM server address to assign. Step 4: Click the "Save" option to complete assigning the extension to the phone.

Note

- When configuring the UCMRC server address to the phone, in order to make UCMRC work normally, the system will automatically issue the following configuration to the phone:
 - 1. NAT Traversal: STUN
 - 2. SIP transport is configured as "TLS".
 - 3. The Session Timer settings will be modified following the configurations below:

Enable Session Timer Yes Session Expiration 600 Min-SE 90 Caller Request Timer Yes Callee Request Timer Yes UAC Specify Refresher

- UAS Specify Refresher UAS
- 4. "Minimum TLS Version" and "Maximum TLS Version" to be 2 or 1.3

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- After assigning an account to the phone on the GDMS, if the phone cannot be registered or there is a problem with the call after the registration, please go to the phone to check whether the configuration is correct according to section [CONFIGURING SIP ACCOUNTS ON END DEVICES]
- IP phones which are not supported on GDMS cannot be remotely managed and deployed.
- Clients will not be able to edit SIP UserID, Authentication ID, Authentication Password, Display Name or Voicemail Access Number from this page.
- The available devices for configuration will be the devices listed in the VoIP Device page.

Make calls using IP Phones

After configuring the IP phones with CloudUCM service, users can use the phone to make audio/video calls and join GS Wave audio/video meetings.

• Alert