UCM630x Series - User Manual

Thank you for purchasing the Grandstream UCM630X series IP PBX appliance. The UCM6300 series allows businesses to build powerful and scalable unified communication and collaboration solutions. This series of IP PBXs provide a platform that unifies all business communication on one centralized network, including voice, video calling, video conferencing, video surveillance, web meetings, data, analytics, mobility, facility access, intercoms, and more. The UCM6300 series supports up to 3000 users and includes a built-in web meetings and video conferencing solution that allows employees to connect from the desktop, mobile, GVC series devices, and IP phones. It can be paired with the UCM6300 ecosystem to offer a hybrid platform that combines the control of an on-premises IP PBX with the remote access of a cloud solution. The UCM6300 ecosystem consists of the Wave app for desktop and mobile, which provides a hub for collaborating remotely, and UCM RemoteConnect, a cloud NAT traversal service for ensuring secure remote connections. The UCM6300 series also offers cloud setup and management through GDMS and an API for integration with third-party platforms. By offering a high-end unified communications and collaboration solution packed with a suite of mobility, security, meeting, and collaboration tools, the UCM6300 series provides a powerful platform for any organization.

O Caution

Changes or modifications to this product not expressly approved by Grandstream, or operation of this product in any way other than as detailed by this User Manual, could void your manufacturer warranty.

A Warning

Please do not use a different power adaptor with the UCM630X as it may cause damage to the product and void the manufacturer warranty.

O Alert

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PRODUCT OVERVIEW

Technical Specifications

The following table resumes all the technical specifications including the protocols/standards supported, voice codecs, telephony features, languages, and upgrade/provisioning settings for the UCM630X series.

Interfaces

	• UCM6301: 1 port with lifeline support
	• UCM6302: 2 ports with lifeline support
Analog Telephone FXS Ports	• UCM6304: 4 ports with lifeline support
	• UCM6308: 8 ports with lifeline support
	Each port supports 3 RN
DOTN I :no EVO Dorta	
PSTN Line FXO Ports	• UCM6301: 1 port
	• UCM6302: 2 ports
	• UCM6304: 4 ports
	• UCM6308: 8 ports

All ports have lifeline capability in case of a power outage.						
Network Interfaces	Three self-adaptive Gigabit ports (switched, routed, or dual card mode) with PoE+					
NAT Router	Yes (supports router mode and switch mode)					
Peripheral Ports	 UCM6301: USB 3.0, and SD card interface UCM6302: USB 2.0, USB 3.0, and SD card interface UCM6304/6308: 2x USB 3.0 and SD card interface 					
LED Indicators	 UCM6301/UCM6302: None UCM6304/6308: Power 1/2, FXS, FXO, LAN, WAN, Heartbeat 					
LCD Display	 UCM6301/UCM6302: 320*240 LCD with touch screen for Shortcut Keys and Scroll Bar UCM6304/6308: 128x32 dot matrix graphic LCD with DOWN and OK buttons 					
Reset Switch	Yes, long press for factory reset and short press for reboot					
Voice/Video Capabilities						
Voice-over-PacketLEC with NLP Packetized Voice Protocol Unit, 128ms-tail-length carrier grade Line Echo CancellationCapabilitiesBuffer, Modem detection & auto-switch to G.711, NetEQ, FEC 2.0, jitter resilience up to 50% audio						
Voice and Fax Codecs	Opus, G.711 A-law/U-law, G.722, G722.1 G722.1C, G.723.1 5.3K/6.3K, G.726-32, G.729A/B, iLBC, GSM; T.38					
Video Codecs	H.264, H.263, H263+, VP8					
QoS	Layer 2 QoS (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS					
Signaling and Control						
DTMF Methods	Inband, RFC4733, and SIP INFO					
Provisioning Protocol and Plug-and-Play	Mass provisioning using AES encrypted XML configuration file, auto-discovery & auto-provisioning of Grandstream IP endpoints via ZeroConfig (DHCP Option 66 multicast SIP SUBSCRIBE mDNS), eventlist between the local and remote trunk					
Network Protocols	TCP/UDP/IP, RTP/RTCP, ICMP, ARP, DNS, DDNS, DHCP, NTP, TFTP, SSH, HTTP/HTTPS, PPPoE, STUN, SRTP, TLS, LDAP, HDLC, HDLC-ETH, PPP, Frame Relay (pending), IPv6, OpenVPN®					
API	Full API available for third-party platform and application integration					
Disconnect Methods	Busy/Congestion/Howl Tone, Polarity Reversal, Hook Flash Timing, Loop Current Disconnect					
Security						

Media Encryption	SRTP, TLS1.2, HTTPS, SSH, 802.1x				
Physical					
Universal Power Supply	 UCM6301/6302: Input: 100 ~ 240VAC, 50/60Hz; Output: DC+12V, 1.5A UCM6304/6308: Input: 100~240VAC,50/60Hz; Output: DC+12V, 2A 				
Dimensions	 UCM6301/6302: 270mm(L) x 175mm(W) x 36mm(H) UCM6304/6308: 485mm(L) x 187.2mm(W) x 46.2mm(H) 				
Environmental	 Operating: 32 - 113°F / 0 ~ 45°C, Humidity 10 - 90% (non-condensing) Storage: 14 - 140°F / -10 ~ 60°C, Humidity 10 - 90% (non-condensing) 				
Mounting	 Wall mount (Unit will be fixed on the wall using screws) & Desktop for UCM6301/6302. Desktop & Rack mount for UCM6304/6308. 				
Weight• UCM6301: Unit weight 715g, Package weight 1211g• UCM6302: Unit weight 725g, Package weight 1221g• UCM6304: Unit weight 2490g, Package weight 3260g• UCM6308: Unit weight 2550g, Package weight 3320g					
Additional Features					
Multi-language Support	 Web UI: English, Simplified Chinese, Traditional Chinese, Spanish, French, Portuguese, German, Russian, Italian, Polish, Czech, Turkish Customizable IVR/voice prompts: English, Chinese, British English, German, Spanish, Greek, French, Italian, Dutch, Polish, Portuguese, Russian, Swedish, Turkish, Hebrew, Arabic, Netherlands Customizable language pack to support any other languages 				
Caller ID	Bellcore/Telcordia, ETSI-FSK, ETSI-DTMF, SIN 227 – BT, NTT				
Polarity Reversal/ Wink	Yes, with enable/disable option upon call establishment and termination				
Call Center Multiple configurable call queues, automatic call distribution (ACD) based on agent skills/availability/workload, in announcement					
Customizable Auto Attendant Up to 5 layers of IVR (Interactive Voice Response) in multiple languages					
Telephony Operating System	Based on Asterisk version 16				
Maximum Call Capacity	UCM6301: • Users: 500 • Concurrent calls (G.711): 75				

	• Max concurrent SRTP calls (G.711): 50
	UCM6302:
	• Users: 1000
	• Concurrent calls (G.711): 150
	• Max concurrent SRTP calls (G.711): 100
	UCM6304:
	• Users: 2000
	• Concurrent calls (G.711): 300
	• Max concurrent SRTP calls (G.711): 200
	UCM6308:
	• Users: 3000
	• Concurrent calls (G.711): 450
	• Max concurrent SRTP calls (G.711): 300
	UCM6301:
	• 4 Video Conference rooms and up to 20 parties with 1080p HD H.264 and Opus (assuming 4 video feeds + 1 screen sharing)
	• Voice Conference: Up to 75 parties with G.711
	UCM6302:
	• 6 Video Conference rooms and up to 30 parties with 1080p HD H.264 and Opus (assuming 4 video feeds + 1 screen
	sharing)
Maximum Attendees of	• Voice Conference: Up to 150 parties with G.711
Conference Bridges	UCM6304:
	• 8 Video Conference rooms and up to 60 parties with 1080p HD H.264 and Opus (assuming 4 video feeds + 1 screen
	sharing)
	• Voice Conference: Up to 200 parties with G.711
	UCM6308:
	• 10 Video Conference rooms and up to 80 parties with 1080p HD H.264 and Opus (assuming 4 video feeds + 1 screen
	sharing)
	• Voice Conference: Up to 300 parties with G.711
	Call park, call forward, call transfer, call waiting, caller ID, call record, call history, ringtone, IVR, music on hold, call

Call Features	routes, DID, DOD, DND, DISA, ring group, ring simultaneously, time schedule, PIN groups, call queue, pickup group, paging/intercom, voicemail, call wakeup, SCA, BLF, voicemail to email, speed dial, call back, dial by name, emergency call, call follow me, blacklist/whitelist, voice conference, video conference, eventlist, feature codes, busy camp-on/ call completion, voice control			
Wave Mobile App	Allows Android & iOS users to join UCM-hosted meetings & communicate with other users/solutions registered to the UCM6300			
Firmware Upgrade	Supported by Grandstream Device Management System (GDMS), a zero-touch cloud provisioning and management system, It provides a centralized interface to provision, manage, monitor, and troubleshoot Grandstream products			

	• FCC: Part 15 (CFR 47) Class B, Part 68				
	• CE: EN 55032, EN 55035, EN61000-3-2, EN61000-3-3, EN 62368.1, ES 203 021, ITU K.21				
Compliance	• IC: ICES-003, CS-03 Part I Issue 9				
	• RCM: AS/NZS CISPR 32, AS/NZS 62368.1, AS/CA S002, AS/CA S003.1/.2				
	• Power adapter: UL 60950-1 or UL 62368-1				

Table 1: Technical Specifications

UCM630X FXS ports lifeline functionality: The UCM630X FXS interfaces are metallic through to the FXO interfaces. If there is a power outage, the FXS1 port will fail over to FXO 1 port, FXS 2 port will fail over to FXO 2 port. The user can still access the PSTN connected with the FXO interfaces from FXS interfaces.

INSTALLATION

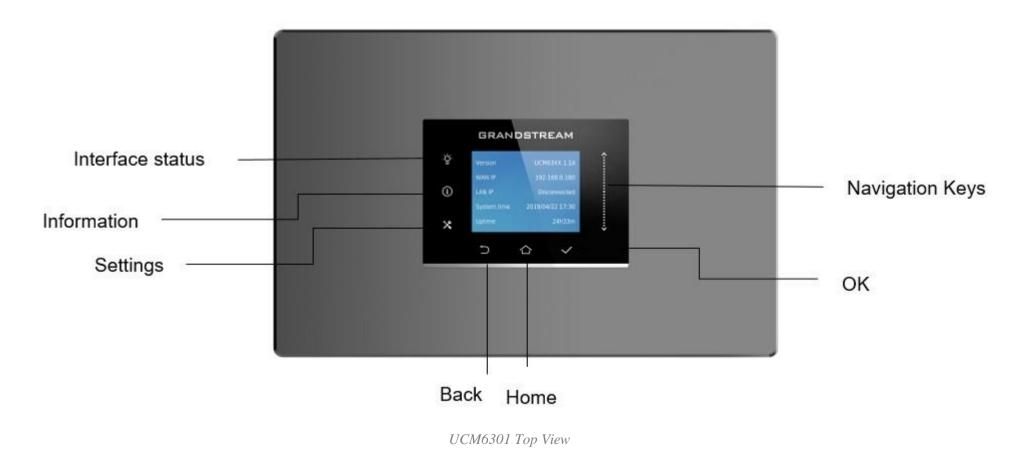
Before deploying and configuring the UCM630X series, the device needs to be properly powered up and connected to a network. This section describes detailed information on the installation, connection, and warranty policy of the UCM630X series.

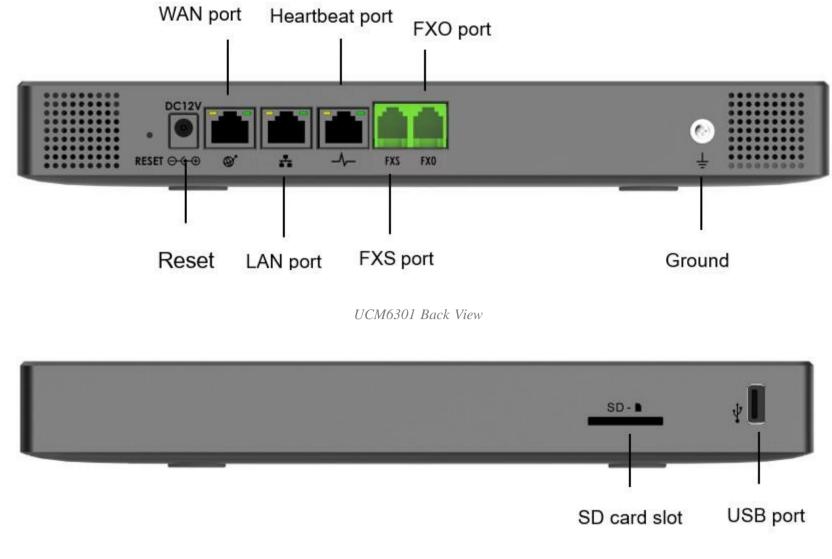
Equipment Packaging

Main Case	1
Power Adaptor	1
Ethernet Cable	1
Quick Installation Guide	1

Table 2: UCM630X Equipment Packaging

Connect Your UCM630X (UCM6301 as an example)





UCM6301 Front View

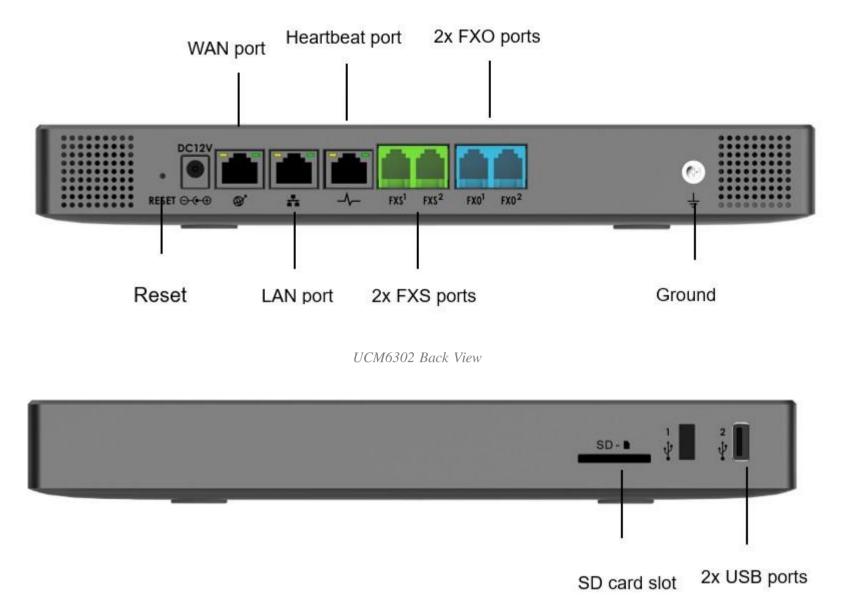
To set up the UCM6301, follow the steps below:

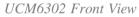
- 1. Connect one end of an RJ-45 Ethernet cable into the WAN port of the UCM6301.
- 2. Connect the other end of the Ethernet cable into the uplink port of an Ethernet switch/hub.
- 3. Connect the 12V DC power adapter into the 12V DC power jack on the back of the UCM6301. Insert the main plug of the power adapter into a surgeprotected power outlet.
- 4. Wait for the UCM6301 to boot up. The LCD in the front will show the device hardware information when the boot process is done.
- 5. Once the UCM6301 is successfully connected to the network, press the Home button to display the IP address.
- 6. (Optional) Connect PSTN lines from the wall jack to the FXO ports; connect analog lines (phone and Fax) to the FXS ports.

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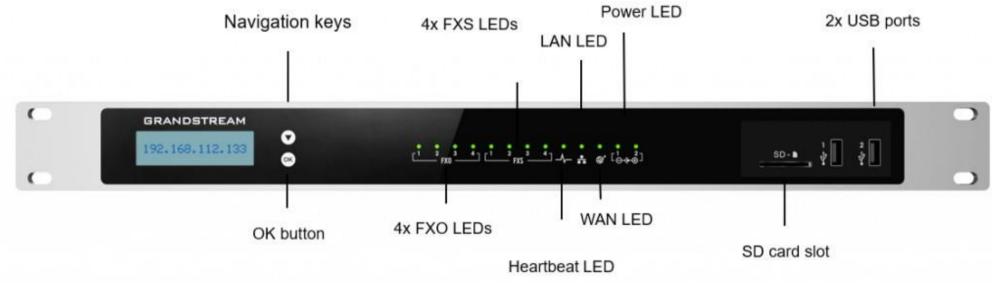
- The ground screw needs to be connected.
- The same steps will be used to connect UCM6302/6304/6308.

UCM6302 front and back view





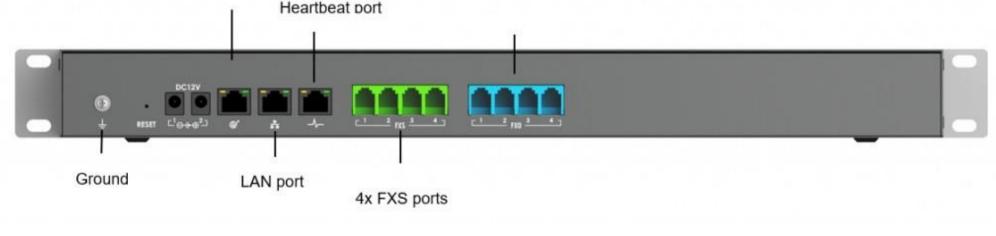
UCM6304 front and back view



UCM6304 Front View

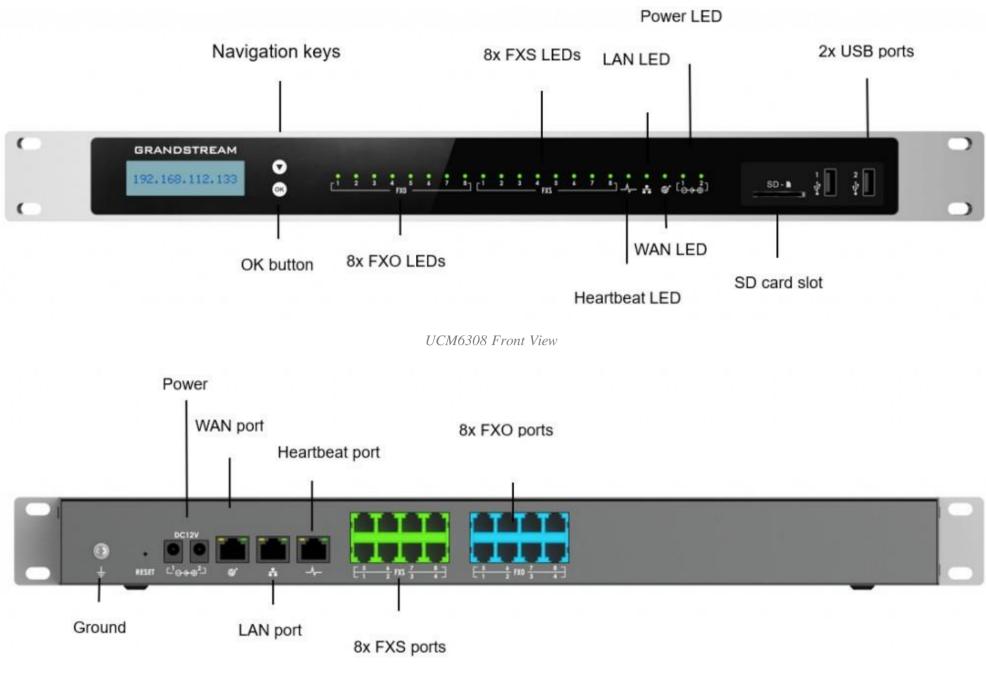
WAN port

4x FXO ports



UCM6304 Back View

UCM6308 front and back view



UCM6308 Back View

Safety Compliances

The UCM630X series IP PBX complies with FCC/CE and various safety standards. The UCM630X power adapter is compliant with the UL standard. Use the universal power adapter provided with the UCM630X package only. The manufacturer's warranty does not cover damages to the device caused by unsupported power adapters.

1 Warranty

If the UCM630X series IP PBX was purchased from a reseller, please contact the company where the device was purchased for replacement, repair, or refund. If the device was purchased directly from Grandstream, contact our Technical Support Team for an RMA (Return Materials Authorization) number before the product is returned. Grandstream reserves the right to remedy the warranty policy without prior notification.

O Warning

Use the power adapter provided with the UCM630X series IP PBX. Do not use a different power adapter as this may damage the device. This type of damage is not covered under warranty.

GETTING STARTED

To get started with the UCM630X setup process, use the following available interfaces: LCD display, and web portal.

• The LCD display shows hardware, software, interface status, and network information and can be navigated via the Slide control and Touch keys. From

here, users can configure basic network settings, run diagnostic tests, and factory reset.

• The web portal (may also be referred to as web UI in this guide) is the primary method of configuring the UCM.

This section will provide step-by-step instructions on how to use these interfaces to quickly set up the UCM and start making and receiving calls with it.

Use the LCD Menu

• Idle Screen

Once the device has booted up completely, the LCD will show the UCM model, hardware version, and IP address. Upon menu key press timeout (30 seconds), the screen will default back to this information.

• Menu

Pressing the Home button will show the main menu. All available menu options are found in [Table 3: LCD Menu Options].

• Menu Navigation

Scrolling down using slide control through the menu options. Press the OK button to select an option.

• Exit

Selecting the Back option will return to the previous menu. For the Device Info, Network Info, and Web Info screens that have no Back option, pressing the OK button will return to the previous menu.

• LCD Backlight

The LCD backlight will turn on upon button press and will go off when idle for 30 seconds.

The following table summarizes the layout of the LCD menu of UCM630x.

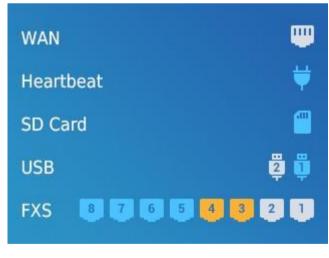
Device Info • Hardware: Hardware version number • Software: Software version number • P/N: Part number • WAN MAC: WAN side MAC address • LAN MAC: LAN side MAC address	View Events	 Critical Events Other Events
	Device Info	 Software: Software version number P/N: Part number WAN MAC: WAN side MAC address

	• Uptime: System uptime					
Network Info	 WAN Mode: DHCP, Static IP, or PPPoE WAN IP: IP address WAN Subnet Mask LAN IP: IP address LAN Subnet Mask 					
Network Menu	• WAN Mode: Select WAN mode as DHCP, Static IP, or PPPoE					

	• Static Route Reset: Select this to reset static route settings.					
Factory Menu	 Reboot Factory Reset LCD Test Patterns: Press DOWN and OK buttons to scroll through and select different LCD patterns to test. Once a test is done, press the OK button to return to the previous menu. Fan Mode: Select Auto or On. LED Test Patterns: All On, All Off, and Blinking are the available options. Selecting Back in the menu will revert the LED indicators to their actual status. RTC Test Patterns: Select either 2022-02-22 22:22 or 2011-01-11 11:11 to start the RTC (Real-Time Clock) test pattern. Check the system time from either the LCD idle screen or in the web portal System Status→System Information→General page. To revert to the correct time, manually reboot the device. Hardware Testing: Select Test SVIP to verify hardware connections within the device. The result will display on the LCD when the test is complete. 					
Web Info	 Protocol: Web access protocol (HTTP/ HTTPS). HTTPS is used by default. Port: Web access port number, which is 8089 by default. 					
SSH Switch	 Enable SSH Disable SSH SSH access is disabled by default 					

Use the LED Indicators

The UCM6301/6302 has LED indicators on the network port to display connection status and the following picture shows the other ports' status.





The UCM6304/6308 has LED indicators in the front to display the connection status. The following table shows the status definitions.

LED Indicator	LED Status
Power 1/Power 2	
PoE	
LAN	• Solid: Connected
WAN	• Fast Blinking: Data Transferring
USB	• Slow Blinking: Trying to connect
SD	• OFF : Not Connected
FXS ports	
FXO ports	

Table 4: UCM6304/6308 LED Indicators

Using the Web UI

Accessing the Web UI

The UCM's web server responds to HTTP/HTTPS GET/POST requests. Embedded HTML pages allow users to configure the device through a web browser such as Microsoft IE (version 8+), Mozilla Firefox, Google Chrome, etc. To access the UCM's web portal, follow the steps below:



UCM6302 Web GUI Login Page

1. Make sure your computer is on the same network as the UCM.

2. Make sure that the UCM's IP address is displayed on its LCD.

3. Enter the UCM's IP address into a web browsers' address bar. The login page should appear (please see the above image).

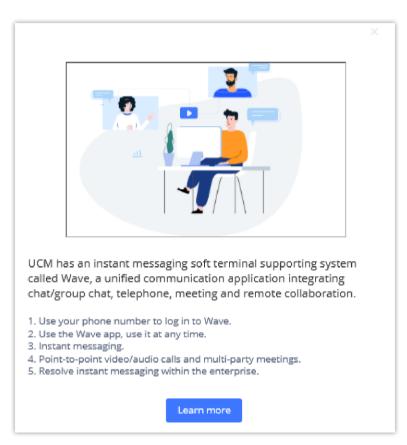
4. Enter default administrator username "admin" and password can be found on the sticker at the back of the UCM.

By default, the UCM630X has **Redirect From Port 80** enabled. As such, if users type in the UCM630X IP address in the web browser, the web page will be automatically redirected to the page using HTTPS and port 8089. For example, if the LCD shows 192.168.40.167, and 192.168.40.167 is entered into the web browser, the web page will be redirected to: https://192.168.40.167:8089

The option **Redirect From Port 80** can be found under the UCM630X Web GUI→System Settings→HTTP Server.

Setup Wizard

When you log in to the UCM Web GUI interface for the first time, the system will automatically start the setup wizard and expand the description of the instant messaging soft terminal supporting system (Wave). Click "Learn more" to open the Wave client download interface.



UCM630x Web GUI Wave guide interface

The setup wizard guides users to complete basic configuration, such as administrator password modification, network settings, time zone settings, extension settings, and routing rule configuration, etc.

Setup Wizard	Setup Wizard						
1 Change Password	2 Network Settings	(3) Select Time Zone	(4) Extensions	5 Trunks / Routes	6 Summary		
Change Password							
Enter Old Password :							
Enter New Password :							
Re-enter New Password :							
Email Address :							
Next							

UCM630X Setup Wizard

The setup wizard can be closed and reopened at any time. At the end of the wizard, a summary of the pending configuration changes can be reviewed before

applying them.

Main Settings

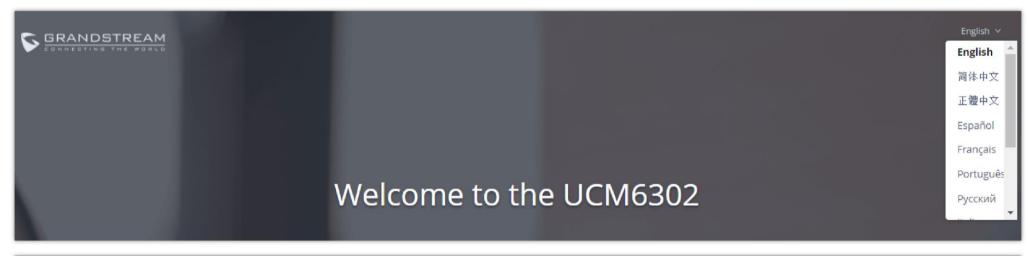
There are 8 main sections in the web portal to manage various features of the UCM.

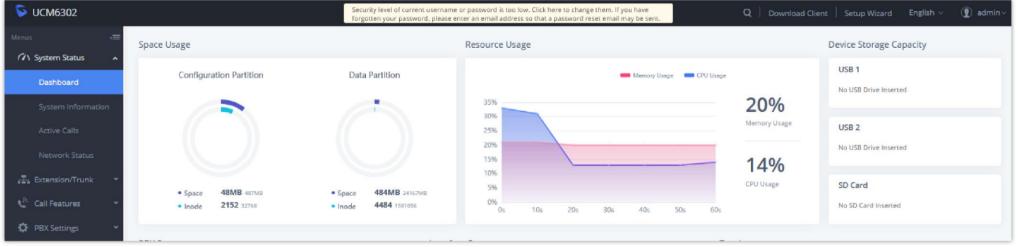
- System Status: Displays the dashboard, system information, current active calls, and network status.
- Extensions/Trunks: Manages extensions, trunks, and routing rules.
- Call Features: Manages various features of the UCM such as the IVR and voicemail.
- PBX Settings: Manages the settings related to PBX functionality such as SIP settings and interface settings.
- System Settings: Manages the settings related to the UCM system itself such as network and security settings.
- **CDR:** Contains the call detail records, statistics, and audio recordings of calls processed by the UCM.
- Other Features: Manages the settings of features unrelated to core PBX functionality such as Zero Config provisioning and CRM/PMS integrations.
- **Maintenance:** Manages settings and logs related to system management and maintenance such as user management, activity logs, backup settings, upgrade settings, and troubleshooting tools.

Web GUI Languages

Currently the UCM630X series Web GUI supports *English, Simplified Chinese, Traditional Chinese, Spanish, French, Portuguese, Russian, Italian, Polish, German, Turkish, and Czech.*

Users can select the UCM's web UI display language in the top-right corner of the page.

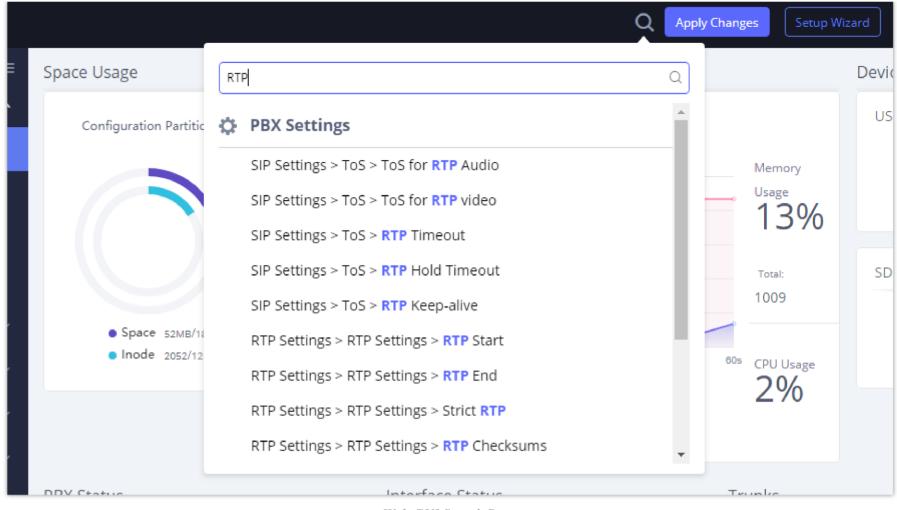




UCM630X Web GUI Language

Web GUI Search Bar

Users can search for options in the web portal with the search bar on the top right of the page.





Saving and Applying Changes

After making changes to a page, click on the "Save" button to save them and then the "Apply Changes" button that finalizes the changes. If a modification requires a reboot, a prompt will appear asking to reboot the device.

Setting Up an Extension

Power on the UCM630X and your SIP endpoint. Connect both devices to the same network and follow the steps below to set up an extension.

- 1. Log into the UCM web portal and navigate to Extension/Trunk→Extensions
- 2. Click on the "Add" button to start creating a new extension. The Extension and SIP/IAX Password information will be used to register this extension. To set up voicemail, the Voicemail Password will be required.
- 3. To register an endpoint to this extension, go into your endpoint's web UI and edit the desired account. Enter the newly created extension's number, SIP user ID, and password into their corresponding fields on the endpoint. Enter the UCM's IP address into the SIP server field. If setting up voicemail, enter *97 into the Voice Mail Access Number field. This field may be named differently on other devices.
- 4. To access the extension's voicemail, use the newly registered extension to dial *97 and access the personal voicemail system. Once prompted, enter the voicemail password. If successful, you will now be prompted with various voicemail options.
- 5. You have now set up an extension on an endpoint.

SYSTEM SETTINGS

This section will explain the available system-wide parameters and configuration options on the UCM630X series. This includes settings for the following

items: General Settings, Cloud IM, HTTP server, network Settings, OpenVPN, DDNS Settings, Security Settings, LDAP server, Time settings, Email settings, and TR-069.

General Settings

System administrators can prevent the UCM from making calls and/or writing to the data partition (e.g., CDR, recordings, etc.) once the system reaches a

specified threshold of storage usage and CPU usage respectively. These options are located in the System Settings \rightarrow General Settings page.

General Settings			
Device Name:]	
Enable CPU Flow Control:	✓		
		_	
CPU Flow Control	90%		
Threshold:]	
Data Partition Write	90% ~		
Threshold :]	

General Settings Interface

General Settings	
Device Name	Configure the name of the UCM.
Enable CPU Flow Control	Enables the CPU flow control.
CPU Flow Control Threshold	Used to set the threshold generated by the CPU Flow Control. When the system CPU reaches the threshold, it will prohibit the new calls. The default value is 90% .
Data Partition Write Threshold	Used to set a threshold to stop writing data partition. When the disk data partition reaches the threshold configured, the data partition writing will be stopped. The default value is 90% .

Table 5: General Settings Parameters

IM Settings

Cloud IM Service

After enabling **Cloud IM**, it means that all IM data in Wave is stored in the external server Cloud IM, and is no longer stored locally in UCM.GDMS can configure the External Cloud IM service for UCM devices. At this time, the UCM device synchronizes the configuration item information.

IM Settings		
Cloud IM Service	IM Server	Cancel Save
Enable Cloud IM:		
Local Proxy:		
Cloud IM Server : Address	im.ucmrc.cloud	
Address	To view the external CloudIM server address, please go to RemoteConnect	
* Service ID :	100042	
* Key:	> _{>r} *	
* Department Name:	IT	
Trusted User:		
Prepend:		
Sync Local Chat Data:		
Get more information abo	ut Cloud IM Settings at 《Cloud IM Server Admin Guide》	
	Copyright © Grandstream Networks, Inc. 2022. All Rights Reserved.	

Cloud IM Service

Cloud IM Service	
Enable Cloud IM	If you have purchased the UCM Cloud IM package or purchased the Grandstream IM server, you can configure it. If you have not purchased it, the configuration will not take effect, but UCM local IM service is allowed. Please note that after enabling this feature, local chat data will not be visible.
Local Proxy	If enabled, the local proxy will be used to forward files and text messages if the IM server cannot be connected to upon Wave login due to certificate issues.
Cloud IM Server Address	The address of the server that provides IM service, you can fill in the address of the Cloud IM server provided by the RemoteConnect package or the IM server address of the GDMS.
Service ID	The service ID of the Cloud IM server.
Key	The Key to the Cloud IM server.

Key	The Key to the Cloud hvi server.
Company Name	Company Name
Trusted User	The trusted user of the cloud IM. Only letters, numbers, and special characters are allowed.
Prepend	As the extension prefix, it is added before the extension number.
Sync Local Chat Data	Syncing existing local chat data to Cloud IM server. The Wave chat feature will not be available during the syncing process. It is recommended to avoid syncing during active working hours. - Time Range



O Note

Please note that synchronization of the local chat can only occur in the initial connection to a Cloud IM Server . If the UCM is already connected to a Cloud IM server, or the Cloud IM server has already been synced to other UCMs, local chat data will not be able to be synced.

Only account details and department information will be synced on local IM and cloud IM. Other configurations such as profile picture, work status, and favorite contacts will not be synced and these are stored in local IM or cloud IM respectively. Therefore, please be aware that when switching between local IM and cloud IM, part of the data cannot be synced and the previously stored data on local IM or cloud IM (depending on which one is switched to) will be retrieved.

IM Server

If Enable IM Server Mode is toggled on, UCM will function only as an IM server. The UCM management portal will remove PBX-related services and supports the binding of multiple cross-region UCM devices. The UCM device that wants to bind the IM server address is also bound by turning on the Cloud IM mode, and the IM data in his Wave is stored in this IM server.

IM Server				
Company Name:	GStest	Trusted User:	C074AD0A8C94	
Server Address:	c074ad0a8c94-10671.b.gdms.cloud	Service ID:	100001	
Key:	2322458e635c4b98871b37b5079087c6 📿			
Close IM Server Mode				
ound Device Information				
DEPARTMENT \$	MAC ADDRESS 🗘		DIAL PREFIX 🗘	

No Data

IM server configuration interface

Company name	The entered company name
Server Address	The domain name or IP address of the Cloud IM server.
Service ID	The service ID of the Cloud IM server.
Key	The Key of the Cloud IM server.

Trusted User	The trusted user of the cloud IM. Only letters, numbers, and special characters are allowed.
Bound Device Information	
Department	The department represented by the bound UCM.
MAC Address	MAC address of the bound UCM device.
Dial Prefix	Extension prefix

HTTP Server

The UCM630X's embedded web server responds to HTTPS GET/POST requests and allows users to configure the UCM via web browsers such as Microsoft IE, Mozilla Firefox, and Google Chrome. By default, users can access the UCM by just typing its IP address into a browser address bar. The browser will automatically be redirected to HTTPS using port 8089. For example, typing in "192.168.40.50" into the address bar will redirect the browser to "https://192.168.40.50:8089". This behavior can be changed in the **System Settings→HTTP Server page**.

Redirect From Port 80	Toggles automatic redirection to UCM's web portal from port 80. If disabled, users will need to manually add the UCM's configured HTTPS port to the server address when accessing the UCM web portal via browser. Default is "Enabled".
Port	Specifies the port number used to access the UCM HTTP server. Default is "8089".
Enable IP Address Whitelist	If enabled, only the server addresses in the whitelist will be able to access the UCM's web portal. It is highly recommended to add the IP address currently used to access the UCM web page before enabling this option. Default is "Disabled".
Permitted IP(s)	List of addresses that can access the UCM web portal. Ex: 192.168.6.233 / 255.255.255.255
External Host	Configure a URL and port (optional) used to access the UCM web portal or a public link to the video conference room if the UCM is behind NAT.
Wave Settings	

Configure a URL and port (optional) used to access the UCM web portal or a public link to the video conference room if

External Host	the UCM is behind NAT.
Port	The port to access Wave Web and Wave Mobile. If behind NAT, please make sure to map the external port to this port.
Certificate Settings	
Default Certificate Auto Renewal	If enabled, the default browser certificate will be automatically renewed after 398 days (the max certificate validity period of Chrome, Firefox, and Safari browsers). User-defined certificates are not affected.
Options	Selects the method of acquiring SSL certificates for the UCM web server. Two methods are currently available:

	 Upload Certificate: Upload the appropriate files from one's own PC. Request Certificate: Enter the domain for which to request a certificate for from "Let's Encrypt".
TLS Private Key	Uploads the private key for the HTTP server. Note: Key file must be under 2MB in file size and *.pem format. The file name will automatically be changed to "private.pem".
TLS Cert	Uploads the certificate for the HTTP server. Note: Certificate must be under 2MB in file size and *.pem format. This will be used for TLS connections and contains a private key for the client and a signed certificate for the server.
Domain	Enter the domain to request the certificate for and click on "Request Certificate" button. Request Certificate

If the protocol or port has been changed, the user will be logged out and redirected to the new URL.

Network Settings

After successfully connecting the UCM630X to the network for the first time, users could log in to the Web GUI and go to **System Settings**→**Network Settings** to configure the network parameters for the device.

• UCM630X supports Route/Switch/Dual mode functions.

In this section, all the available network setting options are listed for all models. Select each tab in Web GUI \rightarrow System Settings \rightarrow Network Settings page to configure LAN settings, WAN settings, 802.1X, and Port Forwarding.

Basic Settings

Please refer to the following tables for basic network configuration parameters on UCM6301, UCM6302, UCM6304, and UCM6308, respectively.

Method	 Select "Route", "Switch" or "Dual" mode on the network interface of UCM630X. The default setting is "Switch". Route: WAN port will be used for the uplink connection. LAN port will function similarly to a regular router port. Switch: WAN port will be used for the uplink connection. LAN port will be used as a bridge for connections. Dual: Both WAN and LAN ports will be used for uplink connections labeled as LAN2 and LAN1, respectively. The port selected as the Default Interface will need to have a gateway IP address configured if it is using a static IP. 	
MTU	Specifies the maximum transmission unit value. Default is 1492.	
IPv4 Address		
Preferred DNS Server	If configured, this will be used as the Primary DNS server.	
WAN (when "Method" is set to "Route")		

IP Method	Select DHCP, Static IP, or PPPoE. The default setting is DHCP.			
IP Address	Enter the IP address for static IP settings. The default setting is 192.168.0.160.			
Subnet Mask	Enter the subnet mask address for static IP settings. The default setting is 255.255.0.0.			
Gateway IP	Enter the gateway IP address for static IP settings. The default setting is 0.0.0.0.			
DNS Server 1	Enter the DNS server 1 address for static IP settings.			
DNS Server 2	Enter the DNS server 2 address for static IP settings.			
Username	Enter the username to connect via PPPoE.			
Password	Enter the password to connect via PPPoE.			
Layer 2 QoS 802.1Q/VLAN Tag	Assign the VLAN tag of the layer 2 QoS packets for the WAN port. The default value is 0.			
Layer 2 QoS 802.1p Priority Value	Assign the priority value of the layer 2 QoS packets for the WAN port. The default value is 0.			
LAN (when Method is set to "Route")				
IP Address	Enter the IP address assigned to the LAN port. The default setting is 192.168.2.1.			
Subnet Mask	Enter the subnet mask. The default setting is 255.255.255.0. Enable or disable DHCP server capability. The default setting is "Yes".			
DHCP Server Enable				
DNS Server 1	Enter DNS server address 1. The default setting is 8.8.8.8.			
DNS Server 2	Enter DNS server address 2. The default setting is 208.67.222.222.			
Allow IP Address From	Enter the DHCP IP Pool starting address. The default setting is 192.168.2.100.			
Allow IP Address To	Enter the DHCP IP Pool ending address. The default setting is 192.168.2.254.			
Default IP Lease Time	Enter the IP lease time (in seconds). The default setting is 43200.			
LAN (when Method is set to "Switch")				
IP Method	Select DHCP, Static IP, or PPPoE. The default setting is DHCP.			
IP Address Enter the IP address for static IP settings. The default setting is 192.168.0.160.				
Subnet Mask	Enter the subnet mask address for static IP settings. The default setting is 255.255.0.0.			

Advance TP Bee de gasseur P advance fra atatie P aeringe. The defait uniting in 0.0.0.1. FINS Sever 1 Bee de DNS sever 1 advans fra atatie P aeringe. Fins and Bee de DNS sever 2 advans for atatie P aeringe. Forenare Bee de passeural advance de DPPRI. Forenare Bee de passeural advance de DPPRI. Farer 2 QOS 8021,QPLAD FAD Bee de passeural advance de DEPA DE QUAS packets for the LAN pert. The datatie values 0. FAR 2 QOS 8021,QPLAD FAD Bee de passeural advance de DEPA DE QUAS packets for the LAN pert. The datatie values 0. FAR 2 QOS 8021,QPLAD FAD Obstite Part 2 QOS packets for the LAN pert. The datatie values 0. FAR 2 QUAS 8021,QPLAD FAD Obstite Part 2 QOS packets for the LAN pert. The datatie values 0. FAR 2 QUAS 8021,QPLAD FAD Obstite Part 2 QOS packets for the LAN pert. The datatie values 0. FAR 2 QUAS 8021,QPLAD FAD Obstite Part 2 QOS Packets for the LAN pert. The dataties of the LAN pert. The da				
International internatina international international international i	Gateway IP	Enter the gateway IP address for static IP settings. The default setting is 0.0.0.0.		
Note of the second of the s	DNS Server 1	Enter the DNS server 1 address for static IP settings.		
Norman And an any any any any any any any any any	DNS Server 2	Enter the DNS server 2 address for static IP settings.		
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Layer 2 QoS 802.1p Frierity Value Assign the priority value of the layer 2 QoS packets for the LAN port. The default value is 0. LAN 1 / LAN 2 (when Method is set to "Duff") If "Daal" is selected as "Method", users will need to assign the default interface to be LAN 1 (mapped to UCM6302 WAN port) or LAN 2 (mapped to UCM6302 LAN port) and them configure network settings for LAN LCM6302 WAN port) or LAN 2 (mapped to UCM6302 LAN port) and them configure network settings for LAN LCM6302 WAN port) or LAN 2 (mapped to UCM6302 LAN port) and them configure network settings for LAN LCM6302 WAN port) or LAN 2 (mapped to UCM6302 LAN port) and them configure network settings for LAN LCM6302 WAN port) or LAN 2 (mapped to UCM6302 LAN port) and them configure network settings for LAN LCM6302 WAN port) or LAN 2 (mapped to UCM6302 LAN port) and them configure network settings for LAN LCM6302 WAN port) or LAN 2 (mapped to UCM6302 LAN port) and them configure network settings for LAN LCM6302 WAN port) or LAN 2 (mapped to UCM6302 LAN port) and them configure network settings for LAN LCM6302 WAN port) or LAN 2 (mapped to UCM6302 LAN port) and them configure network settings for LAN LCM6302 WAN port) or LAN 2 (mapped to UCM6302 LAN port) and them configure network settings for LAN LCM6302 WAN port) or LAN 2 (mapped to UCM6302 LAN port) and them configure network settings for LAN LCM6302 WAN port) or LAN 2 (mapped to UCM6302 WAN port) or LAN 2 (mapped to U	Password	Enter the password to connect via PPPoE.		
Image: Control of the set of the se	Layer 2 QoS 802.1Q/VLAN Tag	Assign the VLAN tag of the layer 2 QoS packets for the LAN port. The default value is 0.		
Image: Interface If "Data" is selected as "Method", users will need to assign the default interface to be LAN 1 (mapped to UCM6302 WAN port) or LAN 2 (mapped to UCM6302 LAN port) and then configure network settings for LAN 1. TAN 2. The default interface is LAN 2. IP Method Select DHCP, Static IP, or PPPoE. The default setting is DHCP. IP Address Enter the IP address for static IP settings. The default setting is 192.168.0.160. Subnet Mask Enter the gateway IP address for static IP settings. The default interface. The default interface. The default setting is 0.00.0. DNS Server 1 Enter the DNS server 1 address for static IP settings. Demander Enter the DNS server 2 address for static IP settings. Demander Enter the username to connect via PPPoE. Password Enter the gateway of the layer 2 QoS packets for the LAN port. The default value is 0. Seign the YLAN tag of the layer 2 QoS packets for the LAN port. The default value is 0. Seign the priority value of the layer 2 QoS packets for the LAN port. The default value is 0. Layer 2 QoS 802.1QYLAN Tag Asign the priority value of the layer 2 QoS packets for the LAN port. The default value is 0. Layer 2 QoS 802.1QYLAN Tag Asign the priority value of the layer 2 QoS packets for the LAN port. The default value is 0. Seign the priority value of the layer 2 QoS packets for the LAN port. The default value is 0.	Layer 2 QoS 802.1p Priority Value	Assign the priority value of the layer 2 QoS packets for the LAN port. The default value is 0.		
Default Interface UCM6302 WAN port) or LAN 2 (mapped to UCM6302 LAN port) and then configure network settings for LAN 1.4.N 2. The default interface is LAN 2. IP Method Select DHCP, Static IP, or PPPoE. The default setting is DHCP. IP Address Enter the IP address for static IP settings. The default setting is 192.168.0.160. Subnet Mask Enter the subnet mask address for static IP settings. The default setting is 255.255.0.0. Gateway IP Enter the gateway IP address for static IP settings. The default setting is 255.255.0.0. DNS Server 1 Enter the DNS server 1 address for static IP settings. DNS Server 2 Enter the DNS server 1 address for static IP settings. Carrame Enter the DNS server 2 address for static IP settings. Puseword Enter the DNS server 2 address for static IP settings. Carrame Enter the DNS server 2 address for static IP settings. Puseword Enter the username to connect via PPPoE. Puseword Enter the password to connect via PPPoE. Layer 2 QoS 802.1Q/VLAN Tag Assign the VLAN tag of the layer 2 QoS packets for the LAN port. The default value is 0. Layer 2 QoS 802.1Q Priority Value Assign the priority value of the layer 2 QoS packets for the LAN port. The default value is 0. Layer 2 QoS 802.1Q Priority Value Assign the priority value of the layer 2 QoS packets for the LAN port. The defau	LAN 1 / LAN 2 (when Method is set to "Du	al'')		
IP Address Enter the IP address for static IP settings. The default setting is 192.168.0.160. Subnet Mask Enter the subnet mask address for static IP settings. The default setting is 255.255.0.0. Gateway IP Enter the gateway IP address for static IP settings when the port is assigned as the default interface. The default setting is 0.0.0. DNS Server 1 Enter the DNS server 1 address for static IP settings. DNS Server 2 Enter the DNS server 2 address for static IP settings. Username Enter the username to connect via PPPoE. Password Enter the password to connect via PPPoE. Layer 2 QoS 802.1QVYLAN Tag Assign the VLAN tag of the layer 2 QoS packets for the LAN port. The default value is 0. Layer 2 QoS 802.1p Priority Value Assign the priority value of the layer 2 QoS packets for the LAN port. The default value is 0.	Default Interface	UCM6302 WAN port) or LAN 2 (mapped to UCM6302 LAN port) and then configure network settings for LAN		
Subnet Mask Enter the subnet mask address for static IP settings. The default setting is 255.255.0.0. Gateway IP Enter the gateway IP address for static IP settings when the port is assigned as the default interface. The default setting is 0.0.0.0. DNS Server 1 Enter the DNS server 1 address for static IP settings. DNS Server 2 Enter the DNS server 2 address for static IP settings. Username Enter the username to connect via PPPoE. Password Enter the password to connect via PPPoE. Layer 2 QoS 802.1Q/VLAN Tag Assign the VLAN tag of the layer 2 QoS packets for the LAN port. The default value is 0. Layer 2 QoS 802.1p Priority Value Assign the priority value of the layer 2 QoS packets for the LAN port. The default value is 0.	IP Method	Select DHCP, Static IP, or PPPoE. The default setting is DHCP.		
Gateway IP Enter the gateway IP address for static IP settings when the port is assigned as the default interface. The default setting is 0.0.0. DNS Server 1 Enter the DNS server 1 address for static IP settings. DNS Server 2 Enter the DNS server 2 address for static IP settings. Username Enter the username to connect via PPPoE. Password Enter the password to connect via PPPoE. Layer 2 QoS 802.1Q/VLAN Tag Assign the VLAN tag of the layer 2 QoS packets for the LAN port. The default value is 0. Layer 2 QoS 802.1p Priority Value Assign the priority value of the layer 2 QoS packets for the LAN port. The default value is 0.	IP Address	Enter the IP address for static IP settings. The default setting is 192.168.0.160.		
Gateway IPsetting is 0.0.0.DNS Server 1Enter the DNS server 1 address for static IP settings.DNS Server 2Enter the DNS server 2 address for static IP settings.UsernameEnter the username to connect via PPPoE.PasswordEnter the password to connect via PPPoE.Layer 2 QoS 802.1Q/VLAN TagAssign the VLAN tag of the layer 2 QoS packets for the LAN port. The default value is 0.Layer 2 QoS 802.1p Priority ValueAssign the priority value of the layer 2 QoS packets for the LAN port. The default value is 0.IPv6 Address	Subnet Mask	Enter the subnet mask address for static IP settings. The default setting is 255.255.0.0.		
Image: Construction of the construc	Gateway IP			
Image: Constraint of the series of the se	DNS Server 1	Enter the DNS server 1 address for static IP settings.		
Password Enter the password to connect via PPPoE. Layer 2 QoS 802.1Q/VLAN Tag Assign the VLAN tag of the layer 2 QoS packets for the LAN port. The default value is 0. Layer 2 QoS 802.1p Priority Value Assign the priority value of the layer 2 QoS packets for the LAN port. The default value is 0. Imped Address Imped Address	DNS Server 2	Enter the DNS server 2 address for static IP settings.		
Layer 2 QoS 802.1Q/VLAN Tag Assign the VLAN tag of the layer 2 QoS packets for the LAN port. The default value is 0. Layer 2 QoS 802.1p Priority Value Assign the priority value of the layer 2 QoS packets for the LAN port. The default value is 0. Image: Priority Value Image: Priority Value Image: Priority Value Assign the priority value of the layer 2 QoS packets for the LAN port. The default value is 0. Image: Priority Value Image: Priority Value Image: Priority V	Username	Enter the username to connect via PPPoE.		
Layer 2 QoS 802.1Q/VLAN Tag The default value is 0. Layer 2 QoS 802.1p Priority Value Assign the priority value of the layer 2 QoS packets for the LAN port. The default value is 0. IPv6 Address	Password	Enter the password to connect via PPPoE.		
IPv6 Address	Layer 2 QoS 802.1Q/VLAN Tag			
	Layer 2 QoS 802.1p Priority Value	Assign the priority value of the layer 2 QoS packets for the LAN port. The default value is 0.		
WAN (when "Method" is set to "Route")	IPv6 Address			
	WAN (when "Method" is set to "Route")			
IP Method Select Auto or Static. The default setting is Auto	IP Method	Select Auto or Static. The default setting is Auto		

IP Address	Enter the IP address for static IP settings.		
IP Prefixlen	Enter the Prefix length for static settings. Default is 64		
DNS Server 1	Enter the DNS server 1 address for static settings.		
DNS Server 2	Enter the DNS server 2 address for static settings.		
LAN (when Method is set to "Route")			
DHCP Server	 Select Disable, Auto, or DHCPv6. Disable: the DHCPv6 server is disabled. Auto: Stateless address auto configuration using NDP protocol. DHCPv6: Stateful address auto configuration using DHCPv6 protocol. The default setting is Disabled. 		
DHCP Prefix	Enter DHCP prefix. (Default is 2001:db8:2:2::)		
DHCP prefixlen	Enter the Prefix length for static settings. Default is 64		
DNS Server 1	Enter the DNS server 1 address for static settings. Default is (2001:4860:4860::8888)		
DNS Server 2	Enter the DNS server 2 address for static settings. Default is (2001:4860:4860::8844)		
Allow IP Address From	Configure starting IP address assigned by the DHCP prefix and DHCP prefixlen.		
Allow IP Address To	Configure the ending IP address assigned by the DHCP Prefix and DHCP prefixlen.		
Default IP Lease Time	Configure the lease time (in second) of the IP address.		
LAN (when Method is set to "Switch")			
IP Method	Select Auto or Static. The default setting is Auto		
IP Address	Enter the IP address for static IP settings.		
IP Prefixlen	Enter the Prefix length for static settings. Default is 64		
DNS Server 1	Enter the DNS server 1 address for static settings.		
DNS Server 2	Enter the DNS server 2 address for static settings.		
LAN 1 / LAN 2 (when Method is set to "De	LAN 1 / LAN 2 (when Method is set to "Dual")		
Default Interface to UCM630X LAN port) and then configure network settings for LAN 1/LAN 2. The default interface is			

IP Method	od Select Auto or Static. The default setting is Auto				
IP Address	Enter the IP address for static IP settings.				
P Prefixlen Enter the Prefix length for static settings. Default is 64					
DNS Server 1	Enter the DNS server 1 address for static settings.				
DNS Server 2	Enter the DNS server 2 address for static settings.				
Network Port Traffic Control					
LAN (when Method is set to "Switch")					
Enable Network Port Traffic Storm Alert	The UCM will send a an alert notification/email when there is an excessive number of packets in the LAN that impacts the overall performance of the network. Note: To enable this feature email or HTTP notification should be set up correctly In Maintenance → System Events.				
Network Port Receiving Traffic Control	You can monitor the traffic in the RX direction on each network port and generate an alarm when the corresponding alarm event is turned on and the set threshold value is exceeded. The threshold range is 1 - 1024000 in kbps and 1 - 1000 in mbps.				
LAN 1 & LAN 2 (when Method is set to "D	Dual'')				
Enable Network Port Traffic Storm Alert	The UCM will send a an alert notification/email when there is an excessive number of packets in the LAN that impacts the overall performance of the network. Note: To enable this feature email or HTTP notification should be set up correctly In Maintenance → System Events.				
LAN1 & LAN2 - Network Port Receiving Traffic	You can monitor the traffic in the RX direction on each network port and generate an alarm when the corresponding alarm event is turned on and the set threshold value is exceeded. The threshold range is 1 - 1024000 in kbps and 1 - 1000 in mbps.				

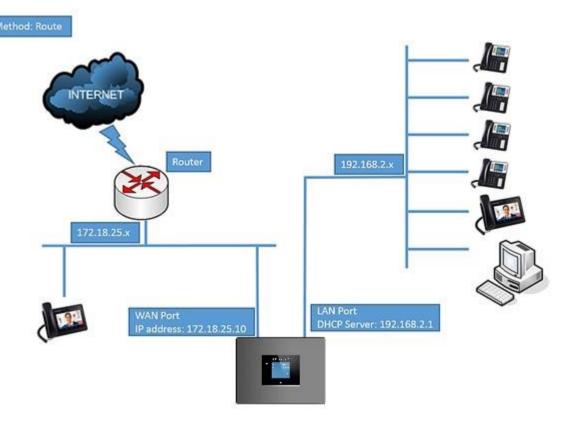
LAN & WAN (When Method is set to Route Mode)

The UCM will send a an alert notification/email when there is an excessive number of packets in the LAN that

Enable Network Port Traffic Storm Alert	 impacts the overall performance of the network. Note: To enable this feature email or HTTP notification should be set up correctly In Maintenance → System Events. 	
WAN: Network Port Receiving Traffic Control	You can monitor the traffic in the RX direction on each network port and generate an alarm when the corresponding alarm event is turned on and the set threshold value is exceeded. The threshold range is 1 - 1024000 in kbps and 1 - 1000 in mbps.	
LAN: Network Port Receiving Traffic Control	You can monitor the traffic in the RX direction on each network port and generate an alarm when the corresponding alarm event is turned on and the set threshold value is exceeded.	

• Method: Route

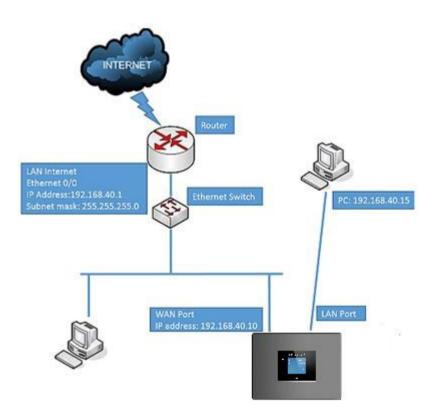
When the UCM630X has the method set to Route in network settings, WAN port interface is used for uplink connection and LAN port interface is used as a router. Please see a sample diagram below.



UCM6302 Network Interface Method: Route

Method: Switch

WAN port interface is used for uplink connection; LAN port interface is used as a room for PC connection.

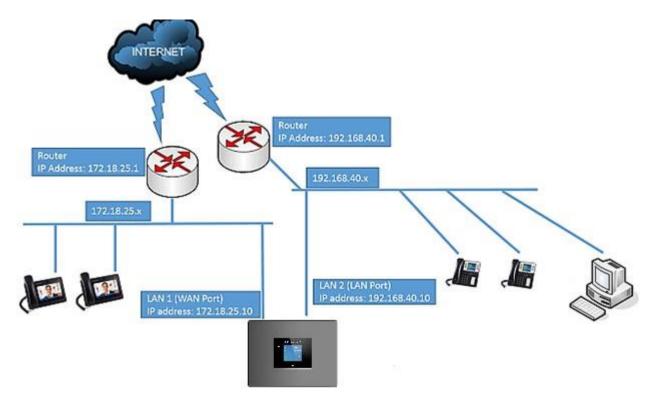


UCM6302 Network Interface Method: Switch

• Method: Dual

Both WAN port and LAN port are used for the uplink connection. Users will need to assign LAN 1 or LAN 2 as the default interface in option "Default

Interface" and configure "Gateway IP" if static IP is used for this interface.

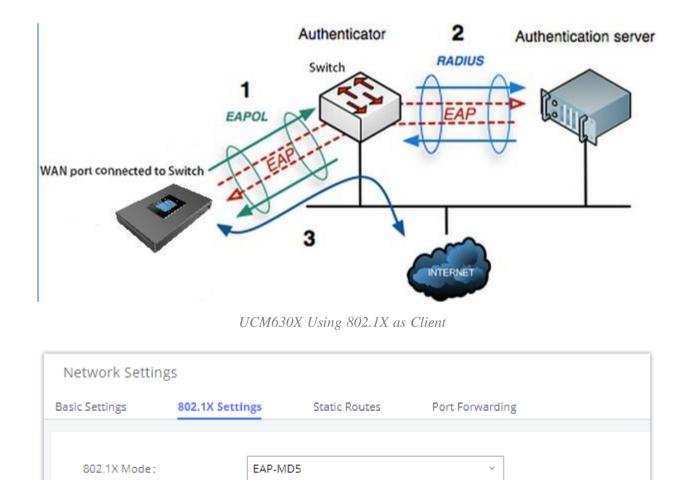


UCM6302 Network Interface Method: Dual

802.1X

IEEE 802.1X is an IEEE standard for port-based network access control. It provides an authentication mechanism to a device before the device can access the Internet or other LAN resources. The UCM630X supports 802.1X as a supplicant/client to be authenticated.

The following diagram and figure show UCM630X uses 802.1X mode "EAP-MD5" on the WAN port as a client in the network to access the Internet.





2

UCM630X Using 802.1X EAP-MD5

8021xxUCM6302

.....

* Identity :

The following table shows the configuration parameters for 802.1X on UCM630X. Identity and MD5 password are required for authentication, which should be provided by the network administrator obtained from the RADIUS server. If "EAP-TLS" or "EAP-PEAPv0/MSCHAPv2" is used, users will also need to upload 802.1X CA Certificate and 802.1X Client Certificate, which should be also generated from the RADIUS server.

802.1X Mode	 Select 802.1X mode. The default setting is "Disable". The supported 802.1X modes are: • EAP-MD5 • EAP-TLS • EAP-PEAPv0/MSCHAPv2
Identity	Enter 802.1X mode Identity information.
MD5 Password Enter 802.1X mode MD5 password information.	
802.1X CA Certificate	Select 802.1X certificate from local PC and then upload.
802.1X Client Certificate	Select 802.1X client certificate from local PC and then upload.

Table 10: UCM630X Network Settings→802.1X

Static Routes

The UCM630X provides users static routing capability that allows the device to use manually configured routes, rather than information only from dynamic routing or gateway configured in the UCM630X Web GUI \rightarrow System Settings \rightarrow Network Settings \rightarrow Basic Settings to forward traffic. It can be used to define a route when no other routes are available or necessary or used in complementary with existing routing on the UCM630X as a failover backup, etc.

- Click on "Add IPv4 Static Route" to create a new IPv4 static route or click "Add IPv6 Static Route" to create a new IPv6 static route. The configuration parameters are listed in the table below.
- $\circ~$ Once added, users can select ~ ${\ensuremath{\mathbb Z}}$ to edit the static route.
- \circ Select \bigcirc to delete the static route.

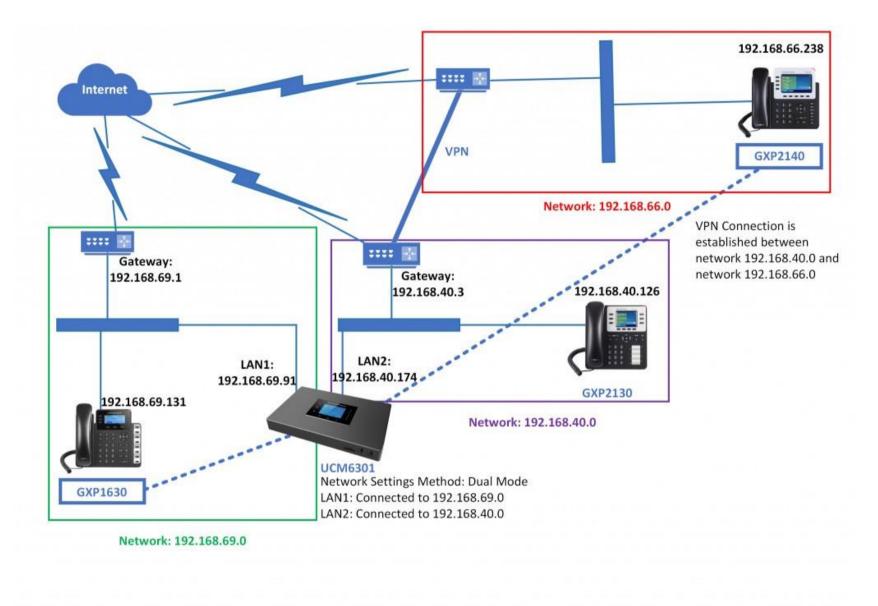
	Configure the destination IPv4 address or the destination IPv6 subnet for the UCM630X to reach using the static route.
Destination	Example:
Desunation	IPv4 address – 192.168.66.4
	IPv6 subnet - 2001:740:D::1/64
	Configure the subnet mask for the above destination address. If left blank, the default value is 255.255.255.255.
Subnet Mask	Example:
	255.255.255.0
	Configure the IPv4 or IPv6 gateway address so that the UCM630X can reach the destination via this gateway. The gateway address is
Gateway	optional.
	Example:
	192.168.40.5 or 2001:740:D::1

T. A. F.	Specify the network interface on the UCM630X to reach the destination using the static route.
Interface	LAN interface is eth0; WAN interface is eth1.

Table 11: UCM630X Network Settings→Static Routes

Static routes configuration can be reset from the LCD menu \rightarrow Network Menu.

The following diagram shows a sample application of static route usage on UCM6304.



GXP1630 and GXP2140 call each other

UCM630X Network Settings→Static Routes

The network topology of the above diagram is as below:

- Network 192.168.69.0 has IP phones registered to UCM6304 LAN 1 address
- Network 192.168.40.0 has IP phones registered to UCM6304 LAN 2 address
- Network 192.168.66.0 has IP phones registered to UCM6304 via VPN
- Network 192.168.40.0 has a VPN connection established with network 192.168.66.0

In this network, by default, the IP phones in network 192.168.69.0 are unable to call IP phones in network 192.168.66.0 when registered on different

interfaces on the UCM6304. Therefore, we need to configure a static route on the UCM6304 so that the phones in isolated networks can make calls between

each other.

Create New IPV4 Static Route					
* Destination:	192.168.66.0				
Subnet Mask :	255.255.255.0				
Gateway:	192.168.40.3				
* Protocol Type:	WAN				

UCM6304 Static Route Configuration

Port Forwarding

The UCM network interface supports the router function which provides users the ability to do port forwarding. If LAN mode is set to "Route" under Web $GUI \rightarrow System Settings \rightarrow Network Settings \rightarrow Basic Settings$ page, port forwarding is available for configuration.

The port forwarding configuration is under Web GUI \rightarrow System Settings \rightarrow Network Settings \rightarrow Port Forwarding page. Please see related settings in the table below.

WAN Port	Specify the WAN port number or a range of WAN ports. An unlimited number of ports can be configured. Note: When it is set to a range, the WAN port, and LAN port must be configured with the same range, such as WAN port: 1000-1005 and LAN port: 1000-1005, and access from the WAN port will be forwarded to the LAN port with the same port number, for example, WAN port 1000 will be port forwarding to LAN port 1000.			
LAN IP	Specify the LAN IP address.			
LAN Port	Specify the LAN port number or a range of LAN ports. Note: When it is set to a range, the WAN port, and LAN port must be configured with the same range, such as WAN port: 1000-1005 and LAN port: 1000-1005, and access from the WAN port will be forwarded to the LAN port with the same port number, for example, WAN port 1000 will be port forwarding to LAN port 1000.			
Protocol Type	Select protocol type "UDP Only", "TCP Only" or "TCP/UDP" for the forwarding in the selected port. The default setting is "UDP Only".			

The following figures demonstrate a port forwarding example to provide a phone's Web GUI access to the public side.

• UCM630X network mode is set to "Route".

- UCM630X WAN port is connected to the uplink switch, with a public IP address configured, e.g. 1.1.1.1.
- UCM630X LAN port provides a DHCP pool that connects to multiple phone devices in the LAN network 192.168.2.x. The UCM60X is used as a router, with gateway address 192.168.2.1.
- There is a GXP2160 connected under the LAN interface network of the UCM630X. It obtains IP address 192.168.2.100 from the UCM630X DHCP pool.

• + Create New Port Forwarding On the UCM630X Web GUI→System Settings→Network Settings→Port Forwarding, configure a port forwarding entry as the figure shows below.

- WAN Port: This is the port opened on the WAN side for access purposes.
- LAN IP: This is the GXP2160 IP address, under the LAN interface network of the UCM630X.
- LAN Port: This is the port opened on the GXP2160 side for access purposes.
- **Protocol Type**: We select TCP here for Web GUI access using HTTP.

Create New Port Forwarding					
* WAN Port:	8088				
* LAN IP:	192.168.2.100				
* LAN Port:	8088				
* Protocol Type:	UDP Only ~				

Create New Port Forwarding

Network Settin	Network Settings					
Basic Settings	802.1X Settings	Static Routes	Port Forwarding			
	Set the LAN mode to "Route" to enable this function. When the port map is set to a range, the start and the end values of the WAN port must be the same as the LAN port's, such as 1500-1505 must match 1500-1505. Single values must match single values, and ranges must match ranges.					
+ Create New Po						
WAN PORT \$	LAN	ID ≑	LAN PORT 🗢	PROTOCOL TYPE 🗢	OPTIONS	
			No Data			

UCM630X Port Forwarding Configuration

This will allow users to access the GXP2160 Web GUI from the public side, by typing in the public IP address (example: 1.1.1.1:8088).

.1.1.1:8088/#page:status_ne	twork							
Grandstream GXP2160					Admin Logo	ut Reboot Provision	Factory Reset	English 🔻
	THE WORLD	STATUS	ACCOUNTS	SETTINGS	NETWORK	MAINTENANCE	PHONEBOOI	ĸ
7								Version 1.0.5.23
Status	Network St	atus						
Account Status								
Network Status	MAC Address		00:0B:82:59:	A9:9A				
System Info	IP Setting		DHCP					

IPv4 Address	192.168.2.100	
IPv6 Address	2001:470:d:10a2:20b:82ff:fe59:a99a	
Subnet Mask	255.255.255.0	
Gateway	192.168.2.1	
DNS Server 1	4.2.2.1	
DNS Server 2	4.2.2.2	

GXP2160 Web Access using UCM6302 Port Forwarding

ARP Settings

The ARP settings can be configured under Web GUI→System Settings→Network Settings→ARP Settings

ARP GC Threshold 1	A minimum number of entries to keep. The garbage collector will not purge entries if there are fewer than this number. The default value is 128.
ARP GC Threshold 2	Threshold when garbage collector becomes more aggressive about purging entries. Entries older than 5 seconds will be cleared when over this number. The default value is 512.
ARP GC Threshold 3	The maximum number of non-PERMANENT neighbor entries allowed. Increase this when using large numbers of interfaces and when communicating with large numbers of directly connected peers. The default value is 1024.

Table 13: ARP Settings

OpenVPN®

OpenVPN® settings allow the users to configure UCM630X to use VPN features, the following table gives details about the various options to configure the UCM as OpenVPN Client.

OpenVPN uses TLS ve	ersion 1.2. Please make sure that the OpenVPN server has the same TLS version, otherwise the connection will fail.
OpenVPN® Enable :	
Configuration : Method	Manual Configuration v
* OpenVPN® Server Address	
OpenVPN® Server : Protocol	UDP ~
OpenVPN® Device : Mode	Dev TUN ~
OpenVPN® Use : Compression	
Allow Weak SSL : Ciphers	
OpenVPN® Encryption : Algorithm	BF-CBC(Blowfish) v
* OpenVPN® CA Cert:	Choose File to Upload 🗎 Delete
* OpenVPN® Client : Cert :	Choose File to Upload
* OpenVPN® Client Key	Choose File to Upload 🗎 Delete
User Authentication:	
* Username:	

*	Password:		
		© <u>2002-2014</u> OpenVPN Technologies, Inc.	
		OpenVPN is a registered trademark of OpenVPN Technologies, Inc.	

Open VPN® Feature on the UCM630X

OpenVPN® Enable	Enable / Disable the OpenVPN® feature.
Configuration Method	Select the OpenVPN® configuration method. Manual Configuration: Allows to configure OpenVPN® settings manually.

	Upload Configuration File: Allows to upload .ovpn and .conf files to the UCM and to automatically configure OpenVPN® settings.
OpenVPN® Server Address	Configures the hostname/IP and port of the server. For example 192.168.1.2:22
OpenVPN® Server Protocol	Specify the protocol user, user should use the same settings as used on the server
OpenVPN® Device mode	 Use the same setting as used on the server. Dev TUN: Create a routed IP tunnel.
	• Dev TAP: Create an Ethernet tunnel.
OpenVPN® Use Compression	Compress tunnel packets using the LZO algorithm on the VPN link. Do not enable this unless it is also enabled in the server config file.
Enable Weak SSL Ciphers	Either to enable the Weak SSL ciphers or not.
OpenVPN® Encryption Algorithm	Specify the cryptographic cipher. Users should make sure to use the same setting that they are using on the OpenVPN server.
OpenVPN® CA Cert	Upload as SSL/TLS root certificate. This file will be renamed as 'ca.crt' automatically.
OpenVPN® Client Cert	Upload a client certificate. This file will be renamed as 'client.crt' automatically.
OpenVPN® Client Key	Upload a client private key. This file will be renamed as 'client.key' automatically.
Username	Username used to authenticate into the server.
Password	Password used to authenticate into the server.

DDNS Settings

DDNS setting allows users to access UCM630X via domain name instead of IP address.

The UCM supports DDNS service from the following DDNS provider:

- dydns.org
- noip.com

• freedns.afraid.org

◦ zoneedit.com

• oray.net

Here is an example of using noip.com for DDNS.

1. Register domain in DDNS service provider. Please note the UCM630X needs to have public IP access.

Hostname Information				
Hostname:	haograndstream.ddns.net	0		
Host Type:	● DNS Host (A) ◎ DNS Host (Round Robin) ◎ DNS Alias (CNAME)	0		
	◎ Port 80 Redirect ◎ Web Redirect			
IP Address:	1.2.3.4 Last Update: 2015-01-07 17:29:20 PST	0		
Assign to Group:	- No Group -	0		
Enable Wildcard:	Wildcards are a Plus / Enhanced feature. Upgrade Now!	0		
Advanced Records:	TXT, SPF, and SRV records and the use of some special clients are Plus / Enhanced features. Upgrade now to use them.	0		

Register Domain Name on noip.com

2. On Web GUI->System Settings->Network Settings->DDNS Settings, enable DDNS service and configure username, password, and host name.

SUCM6302			
Menus	,≡	DDNS Settings	
🧥 System Status	~		
📇 Extension / Trunk	~	DDNS Server:	no-ip.com v
🗳 Call Features	~	Enable DDNS:	
PBX Settings	~	* Username :	user_no_ip
System Settings	^	* Password :	•••••
HTTP Server		* Host Name :	MyGSPBX.ddns.net
Network Settings			
OpenVPN®			
DDNS Settings			

UCM630X DDNS Setting

3. Now you can use a domain name instead of an IP address to connect to the UCM630X Web GUI.

- → C 😵 https://N	AyGSPBX.ddns.net/system-status/da	hboard				🥥 😳 🗵
Apps 🕝 🛅 116594 - L	ICM6301 🔯 95538 - UCM6xxx0F	Asterisk ami-action	🛞 Asterisk 13 AMI Eve	🚍 2048 🔞 Asterisk CLI - VolP-	L. 100vel livit	envorking
S UCM6302					Q Setup W	Azard English - (1) admin1
	Space Usage		Resource Usage			Device Storage Capacity
System Status A Dashboard	Configuration Partition	Data Partition		🛑 Memory Usage 💼 CPU Usage		USB 1
System information			25%		23%	No USB Drive Inserted
			20%		Memory Usage	USB 2
			15%			No USB Drive Inserted



Using Domain Name to Connect to UCM630X

Security Settings

The UCM630X provides users firewall security configurations to prevent certain malicious attacks to the UCM630X system. Users could configure to allow, restrict, or reject specific traffic through the device for security and bandwidth purpose. The UCM630X also provides the Fail2ban feature for authentication errors in SIP REGISTER, INVITE and SUBSCRIBE. To configure firewall settings in the UCM630X, go to Web GUI->System Settings ->Security Settings page.

Static Defense

Under Web GUI→System Settings→Security Settings→Static Defense page, users will see the following information:

- Current service information with port, process, and type.
- Typical firewall settings.
- Custom firewall settings.

The following table shows a sample current service status running on the UCM630X.

Port	Process	Туре	Protocol or Service
7777	Asterisk	TCP/IPv4	SIP
389	Slapd	TCP/IPv4	LDAP
6060	zero_config	UDP/IPv4	UCM630X zero_config service
5060	Asterisk	UDP/IPv4	SIP
4569	Asterisk	UDP/IPv4	SIP
38563	Asterisk	udp/ipv4	SIP
10000	gs_avs	udp/ipv4	gs_avs
10001	gs_avs	udp/ipv4	gs_avs
10002	gs_avs	udp/ipv4	gs_avs
10003	gs_avs	udp/ipv4	gs_avs
10004	gs_avs	udp/ipv4	gs_avs
10005	gs_avs	udp/ipv4	gs_avs
10006	gs_avs	udp/ipv4	gs_avs
10007	gs_avs	udp/ipv4	gs_avs

10010	gs_avs	udp/ipv4	gs_avs
10012	gs_avs	udp/ipv4	gs_avs
10013	gs_avs	udp/ipv4	gs_avs
10014	gs_avs	udp/ipv4	gs_avs
10015	gs_avs	udp/ipv4	gs_avs
10018	gs_avs	udp/ipv4	gs_avs
10019	gs_avs	udp/ipv4	gs_avs
10020	gs_avs	udp/ipv4	gs_avs
6066	Python	udp/ipv4	python
3306	Mysqld	tcp/ipv4	mysqld
45678	Python	udp/ipv4	python
8439	Lighttpd	tcp/ipv4	HTTP
8088	asterisk	tcp/ipv4	SIP
8888	Pbxmid	tcp/ipv4	pbxmid
25	Master	tcp/ipv4	master
636	Slapd	tcp/ipv4	SLDAP
4569	asterisk	udp/ipv6	SIP
42050	asterisk	udp/ipv6	SIP
7681	Pbxmid	tcp/ipv4	pbxmid

Table 15: UCM630X Firewall→Static Defense→Current Service

For typical firewall settings, users could configure the following options on the UCM630X.

Ping Defense	If enabled, ICMP response will not be allowed for Ping requests. The default setting is disabled. To enable or disable it, click on the	
Enable	check box for the LAN or WAN (UCM630X) interface.	

SYN-Flood Defense Enable	 Allows the UCM630X to handle excessive amounts of SYN packets from one source and keep the web portal accessible. There are two options available and only one of these options may be enabled at one time. eth(0)LAN defends against attacks directed to the LAN IP address of the UCM630X. eth(1)WAN defends against attacks directed to the WAN IP address of the UCM630X. SYN Flood Defense will limit the amount of SYN packets accepted by the UCM from one source to 10 packets per second. Any excess packets from that source will be discarded.
Ping-of-Death Defense Enable	Enable to prevent Ping-of-Death attack to the device. The default setting is disabled. To enable or disable it, click on the check box for the LAN or WAN (UCM630X) interface.

Table 16: Typical Firewall Settings

Under "Custom Firewall Settings", users could create new rules to accept, reject or drop certain traffic going through the UCM630X. To create a new rule, click on the "Create New Rule" button and a new window will pop up for users to specify rule options.

Right next to the "Create New Rule" button, there is a checkbox for the option "Reject Rules". If it is checked, all the rules will be rejected except the firewall rules listed below. In the firewall rules, only when there is a rule that meets all the following requirements, the option "Reject Rules" will be allowed to check:

- Action: "Accept"
- Type "In"
- The destination port is set to the system login port (e.g., by default 8089)
- The protocol is not UDP

Create New Firewall Rule			
* Rule Name :	Reject_SSH_WAN		
* Action :	REJECT	~	
* Type:	IN	~	
* Interface :	WAN	~	
* Service:	SSH	~	

Create New Firewall Rule

Rule Name	Specify the Firewall rule name to identify the firewall rule.	
	Select the action for the Firewall to perform.	
Action	• ACCEPT	
	• REJECT	
	• DROP	

	Select the traffic type.
Tune	• IN
Туре	If selected, users will need to specify the network interface "LAN" or "WAN" (for UCM630X) for the incoming traffic.
	• OUT
Interface	Select the interface to use the Firewall rule.
	Select the service type.
	• FTP
	• SSH
	• Telnet
Service	• HTTP
	• LDAP
	• Custom
	If "Custom" is selected, users will need to specify Source (IP and port), Destination (IP and port), and Protocol (TCP, UDP, or Both)
	for the service. Please note if the source or the destination field is left blank, it will be used as "Anywhere".
Source IP Address	Configure a source subnet and port. If set to "Anywhere" or left empty, traffic from all addresses and ports will be accepted. A single
and Port	port or a range of ports can be specified (e.g., 10000, 10000-20000).
Destination IP	Configure a destination subnet and port. If set to "Anywhere" or left empty, traffic can be sent to all addresses and ports. A single
Address and Port	port or a range of ports can be specified (e.g., 10000, 10000-20000).
Protocol	Select the protocol for the rule to be used.

Table 17: Firewall Rule Settings

Save the change and click on the "Apply" button. Then submit the configuration by clicking on "Apply Changes" on the upper right of the web page. The new rule will be listed at the bottom of the page with sequence number, rule name, action, protocol, type, source, destination, and operation. More operations are below:

 \circ Click on \square to edit the rule.

Dynamic Defense

Dynamic defense is supported on the UCM630X series. It can blacklist hosts dynamically when the LAN mode is set to "Route" under Web GUI -> System

Settings \rightarrow Network Settings \rightarrow Basic Settings page. If enabled, the traffic coming into the UCM630X can be monitored, which helps prevent massive

connection attempts or brute force attacks to the device. The blacklist can be created and updated by the UCM630X firewall, which will then be displayed on

the web page. Please refer to the following table for dynamic defense options on the UCM630X.

Dynamic Defense Enable	Enable dynamic defense. The default setting is disabled.
Blacklist Update Interval	Configure the blacklist update time interval (in seconds). The default setting is 120.
Connection Threshold	Configure the connection threshold. Once the number of connections from the same host reaches the threshold, it will be added to the blacklist. The default setting is 100.
Dynamic Defense Whitelist	Allowed IPs and ports range, multiple IP addresses, and port range. For example: 192.168.2.100-192.168.2.105, 1000:9999

Table 18: UCM630X Firewall Dynamic Defense

The following figure shows a configuration example like this:

- If a host at IP address 192.168.5.7 initiates more than 20 TCP connections to the UCM630X it will be added to the UCM630X blacklist.
- This host 192.168.5.7 will be blocked by the UCM630X for 500 seconds.
- Since IP range 192.168.5.100-192.168.5.200 is in the whitelist if a host initiates more than 20 TCP connections to the UCM630X it will not be added to the UCM630X blacklist. It can still establish a TCP connection with the UCM630X.

Static Defense	Dynamic Defense	Fail2Ban	SSH Access
Dynamic Defense			
Dynamic Defense Er	nable: 🔽		
* Blacklist Update Inte	erval 500		
* Connection Thresho	old: 20		
Dynamic Defense Whitelist :	192.168.5.10	0-192.168.5.200 15	:

Configure Dynamic Defense

Fail2ban

Fail2Ban feature on the UCM630X provides intrusion detection and prevention for authentication errors in SIP REGISTER, INVITE and SUBSCRIBE. Once the entry is detected within "Max Retry Duration", the UCM630X will act to forbid the host for a certain period as defined in "Banned Duration". This feature helps prevent SIP brute force attacks on the PBX system.

Security Settings							
Static Defense Dyna	amic Defense	Fail2Ban	SSH Access				
Global Settings							
Enable Fail2Ban :							
Banned Duration (s):	600						
Max Retry Duration (s):	600						
Fail2ban Whitelist:				/	Description / Comment		•
						Add Fail2ban Whitelist	Ð
Local Settings							
Asterisk Service :							
Login Attack Defense :							
Customer Service System	n Call						
Defense :							

Fail2ban Settings

Global Settings					
Enable Fail2Ban	Enable Fail2Ban. The default setting is disabled. Please make sure both "Enable Fail2Ban" and "Asterisk Service" are turned on to use Fail2Ban for SIP authentication on the UCM630X.				
Banned Duration	Configure the duration (in seconds) for the detected host to be banned. The default setting is 600. If set to 0, the host will be always banned.				
Max Retry DurationWithin this duration (in seconds), if a host exceeds the max times of retry as defined in "MaxRe be banned. The default setting is 600.					
MaxRetry	Configure the number of authentication failures during "Max Retry Duration" before the host is banned. The default setting is 5.				
Fail2Ban Whitelist	Configure IP address, CIDR mask, or DNS host in the whitelist. Fail2Ban will not ban the host with a matching address in this list. Up to 20 addresses can be added to the list descriptions/comments can be added for each whitelist entry for admin to log what's the whitelist IP address is for.				

Local Settings					
Asterisk Service	Enable Asterisk service for Fail2Ban. The default setting is disabled. Please make sure both "Enable Fail2Ban" and "Asterisk Service" are turned on to use Fail2Ban for SIP authentication on the UCM630X.				
Listening Port Number	Configure the listening port number for the service. By default, port 5060 will be used for UDP and TCP, and port 5061 will be used for TCP.				
MaxRetry	Configure the number of authentication failures during "Max Retry Duration" before the host is banned. The default setting is 5. Please make sure this option is properly configured as it will override the "MaxRetry" value				

	under "Global Settings".				
Login Attack Defense	Enables defense against excessive login attacks to the UCM's web GUI. The default setting is disabled.				
Listening Port Number	This is the Web GUI listening port number which is configured under System Settings \rightarrow HTTP Server \rightarrow Port. The default is 8089.				
MaxRetry	When the number of failed login attempts from an IP address exceeds the MaxRetry number, that IP address will be banned from accessing the Web GUI.				
Customer Service System Call Defense	Enable call defense in the customer service system. Off by default.				
Listening Port Number The current service listening port. Default UDP port: 5060, TCP port: 5060, 5061, WebSocket comm 8088.					
MaxRetry	Set the maximum number of calls allowed in the "time span". The local matching threshold has a higher priority than the global matching threshold. The default setting is 5.				
	Blacklist				
Blacklist Users will be able to view the IPs that have been blocked by UCM.					

SSH Access

SSH switch now is available via Web GUI and LCD. Users can enable or disable SSH access directly from Web GUI or LCD screen. For web SSH access, please log in to UCM630X web interface and go to Web GUI \rightarrow System Settings \rightarrow Security Settings \rightarrow SSH Access.

The "Enable SSH access" option is for system debugging. If you enable this option, the system will allow SSH access. The SSH connection require using the username "admin" and the super administrator's password. This option is turned off by default. It is recommended to turn off this option when debugging is not required.

Tick "Enable remote SSH" option, the system will allow remote SSH access via the GDMS platform. This option is turned off by default, and it is strongly recommended to turn off this option when remote troubleshooting is not required.

Security Settings			
Static Defense	Dynamic Defense	Fail2Ban	SSH Access

Enable SSH Access		
Enable Remote SSH		
 Access Token 	*****	

SSH Access

Enable SSH Access This option is used for system debugging. Once enabled, UCM will allow SSH access. The SSH connection requires super administrator's username and password. The default setting is "No". It is recommended to set it to "No" if there is no need for debugging.	
---	--

Enable Remote SSH	If this option is enabled, remote SSH access will be allowed through the Feedback platform. It is strongly recommended to keep this disabled unless remote troubleshooting is necessary.	
Access Token	Please enter the token to request SSH data.	

LDAP Server

The UCM630X has an embedded LDAP/LDAPS server for users to manage the corporate phonebook in a centralized manner.

- By default, the LDAP server has generated the first phonebook with **PBX DN** "ou=pbx,dc=pbx,dc=com" based on the UCM630X user extensions already.
- Users could add new phonebook with a different Phonebook DN for other external contacts. For example, "ou=people,dc=pbx,dc=com".
- All the phonebooks in the UCM630X LDAP server have the same **Base DN** "dc=pbx,dc=com".

Term Explanation:

- cn= Common Name
- ou= Organization Unit
- dc= Domain Component

These are all parts of the LDAP Data Interchange Format, according to RFC 2849, which is how the LDAP tree is filtered.

If users have the Grandstream phone provisioned by the UCM630X, the LDAP directory will be set up on the phone and can be used right away for users to access all phonebooks.

Additionally, users could manually configure the LDAP client settings to manipulate the built-in LDAP server on the UCM630X. If the UCM630X has multiple LDAP phonebooks created, in the LDAP client configuration, users could use "dc=pbx,dc=com" as Base DN to have access to all phonebooks on the UCM630X LDAP server, or use a specific phonebook DN, for example "ou=people,dc=pbx,dc=com", to access to phonebook with Phonebook DN "ou=people,dc=pbx,dc=com" only.

UCM can also act as an LDAP client to download phonebook entries from another LDAP server.

To access the LDAP server and client settings, go to Web GUI→Settings→LDAP Server.

LDAP Server Configurations

The following figure shows the default LDAP server configurations on the UCM630X.

LDAP Server			
LDAP Server Configurations	LDAP Phonebook		
* Base DN:	dc=pbx,dc=com		
PBX DN:	ou=pbx		,dc=pbx,dc=com
Root DN:	cn=admin		,dc=pbx,dc=com
* Root Password :	•••••	۲ ۳	
* Confirm Root Password :	•••••	ትተ	
LDAP Cert:	server.crt		Reset Certificates
LDAP Private Key:	private.key		Reset Certificates
LDAP CA Cert :	server.ca		Reset Certificates

LDAP Server Configurations

The UCM630X LDAP server supports anonymous access (read-only) by default. Therefore, the LDAP client does not have to configure a username and password to access the phonebook directory. The "Root DN" and "Root Password" here are for LDAP management and configuration where users will need to provide for authentication purposes before modifying the LDAP information.

The default phonebook list in this LDAP server can be viewed and edited by clicking on/for the first phonebook under LDAP Phonebook.

The UCM630X support secure LDAP (LDAPS) where the communication is encrypted and secure.

LDAP Server					
LDAP Server Configurations	LDAP Phonebook				
	ing items in "Extension" page,	and the phone book will be aut		lease modify the accounts in "Extension s saved and applied. Users can add oth	
🕂 Add 🗘 🗘 Phonebook Do	wnload Configurations) Import Phonebook	🕞 Export Selected Phonebo	ok 🗘 LDAP Settings	
PHONEBOOK DN 🗘					OPTIONS
u=pbx,dc=pbx,dc=	com 🔞				٥
				< 1 > Tota	al: 1 10 / page × Goto 1

Default LDAP Phonebook DN

< Edit Phonebook: pbx		
+ Add Contact		
EXTENSION \$	CALLERID NAME 💠	OPTIONS
1000		C 🗇
1001		C 🔟
1002		C 🗇
1003		C 🗇
1004		C 🗇
1005		C 🗇
1006		C 🗊
1007		C 🗊
1008		C 🗊
1009		C 🗇
	< 1 2 3 >	Total: 30 10 / page × Goto 1

Default LDAP Phonebook Attributes

LDAP Phonebook

Users could use the default phonebook, edit the default phonebook, add new phonebook, import phonebook on the LDAP server as well as export phonebook from the LDAP server. The first phonebook with default phonebook dn "ou=pbx,dc=pbx,dc=com" displayed on the LDAP server page is for extensions in this PBX. Users cannot add or delete contacts directly. The contacts information will need to be modified via Web GUI->Extension/Trunk->Extensions first. The default LDAP phonebook will then be updated automatically.

LDAP Server		
LDAP Server Configurations	LDAP Phonebook	
attributes, please edit the correspondi	ensions in this PBX. The contacts cannot be added or deleted directly. To add or delete the contacts, please modify the accounts in "Extensions" page first. To ading items in "Extension" page, and the phone book will be automatically updated when the change is saved and applied. Users can add other phonebooks f it LDAP attributes and add or delete contacts directly.	
🕂 Add 🗘 🗘 Phonebook Dov	ownload Configurations 📮 Import Phonebook 🕞 Export Selected Phonebook 🗘 LDAP Settings	
PHONEBOOK DN 🗘		OPTIONS
ou=pbx,dc=pbx,dc=	c=com B	٥
	< <u>1</u> > Total: 1 10 / pag	ge∨ Goto 1

• Add new phonebook

A new sibling phonebook of the default PBX phonebook can be added by clicking on "Add" under "LDAP Phonebook" section.

Add Phonebook		×
* Phonebook Prefix: Phonebook DN:		
c	Cancel	

Add LDAP Phonebook

Configure the "Phonebook Prefix" first. The "Phonebook DN" will be automatically filled in. For example, if configuring "Phonebook Prefix" as "people", the "Phonebook DN" will be filled with "ou=people,dc=pbx,dc=com".

Once added, users can select 🛛 to edit the phonebook attributes and contact list (see figure below) or select 👘 to delete the phonebook.

		1 >	Total: 1 10 / page Y Goto 1
062514356	Dr. Smith		区 🛅
ACCOUNTNUMBER \$	CALLERID NAME \$	EMAIL \$	OPTIONS
+ Add Contact			
< Edit Phonebook: GStest			

• Import phonebook from your computer to LDAP server

Click on "Import Phonebook" and a dialog will prompt as shown in the figure below.

Import Phonebook	×
Please use UTF-8 encoding w and Phonebook DN are requi	hen importing CSV, VCF, or XML files.Import file: Account Number ired.
File Type:	CSV ×
File:	Choose File to Upload

Import Phonebook

The file to be imported must be a CSV, VCF or XML file with UTF-8 encoding. Users can open the file with Notepad and save it with UTF-8 encoding.

Here is how a sample file looks like. Please note "Account Number" and "Phonebook DN" fields are required. Users could export a phonebook file from the

UCM630X LDAP phonebook section first and use it as a sample to start with.

	Α	В	С	D	E	F	G	Н	I	J
1	First Nam	Last Name	Account Number	CallerID Name	Email	Department	Mobile Number	Home Number	Fax	Phonebook DN
2	John	Doe	1001	1001		ΙТ	1001000000			phonebook
3	Jane	Doe	1002	1002		Sales	1002000000			phonebook
4	William	Chung	1003	1003		Marketing	1003000000			phonebook
5	Linda	Kuo	1004	1004		Accounting	1004000000			phonebook
6	Steve	Chang	1005	1005		Support	1005000000			others
7										

Phonebook CSV File Format

The Phonebook DN field is the same "Phonebook Prefix" entry as when the user clicks on "Add" to create a new phonebook. Therefore, if the user enters "phonebook" in "Phonebook DN" field in the CSV file, the actual phonebook DN "ou=phonebook,dc=pbx,dc=com" will be automatically created by the UCM630X once the CSV file is imported.

In the CSV file, users can specify different phonebook DN fields for different contacts. If the phonebook DN already exists on the UCM630X LDAP Phonebook, the contacts in the CSV file will be added into the existing phonebook. If the phonebook DN does not exist on the UCM630X LDAP Phonebook, a new phonebook with this phonebook DN will be created.

The sample phonebook CSV file in above picture will result in the following LDAP phonebook in the UCM630X.

LD	AP Server				
LDAP	Server Configurations	LDAP Phonebook			
read		responding items in "Extensi	on" page, and the phone book w	ill be automatically updated when the char	modify the accounts in "Extensions" page first. To modify the nge is saved and applied. Users can add other phonebooks for
+	Add 🚺 🌣 Phonebook Down	nload Configurations	[] Import Phonebook	C Export Selected Phonebook	
	PHONEBOOK DN \$				OPTIONS
	u=pbx,dc=pbx,dc=cd	om 30			۲
	u=GStest,dc=pbx,dc	=com 1			2 💼
			< 1 >		Total: 2 10 / page Y Goto 1

LDAP Phonebook After Import

As the default LDAP phonebook with DN "ou=pbx,dc=pbx,dc=com" cannot be edited or deleted in LDAP phonebook section, users cannot import contacts with Phonebook DN field "pbx" if existed in the CSV file.

• Export phonebook to your computer from UCM630X LDAP server

Select the checkbox for the LDAP phonebook and then click on "Export Selected Phonebook" to export the selected phonebook. The exported phonebook can be used as a record or a sample CSV, VFC or XML file for the users to add more contacts in it and import to the UCM630X again.

LDAP Se	rver					
LDAP Server	r Configurations	LDAP Phonebook				
attributes, pl	ease edit the corresponding		and the phone book will be auto			insions" page first. To modify the read-only d other phonebooks for external accounts. For
+ Add	Phonebook Dow	nload Configurations	3) Import Phonebook	Export Selected Phonebook	O LDAP Settings	
= РНС	DNEBOOK DN 0					OPTIONS
. 1	ou=pbx,dc=pbx,dc=c	om 😰				٥
1	ou=gstest,dc=pbx,dc	×com 🕦				2 0

Export Selected LDAP Phonebook

LDAP Settings

Prerequisites to support contacts sync-up to IP Phones, UCM needs to support the following:

- 1. If Cloud IM is enabled, UCM can send remote UCM's contacts to each end device.
- 2. Contacts from remote UCM can be synced by Cloud IM or LDAP sync via trunk. The contacts data must be complete and consistent.
- 3. If Cloud IM is enabled, the contacts sent from UCM to end device should integrate Cloud IM contacts.
- 4. If Cloud IM is disabled, the contacts sent from UCM to end device should only contain contacts on the UCM.

To support contacts sync-up to Wave, it allows Wave to obtain enterprise contacts from Cloud IM or LDAP. On UCM SIP peer trunk, if LDAP sync is enabled, end point can obtain remote UCM extensions' info via LDAP. Also, it will allow configuring whether to sync up LDAP contacts on Wave so that Wave doesn't receive duplicate contacts info.

Under UCM webUI→ System Settings→ LDAP Server, click on "LDAP Settings", option "Wave enable LDAP phonebook" is available for configuration. If enabled, all Wave users on this UCM will display LDAP contacts. Otherwise, it will not display.

AP Server Configurations	LDAP Phonebook			
	se edit the corresponding item	is in "Extension" page, and the pl	none book will be automatically updated w	modify the accounts in "Extensions" page first. hen the change is saved and applied. Users can
+ Add 🛛 🗘 Phonebook Do	wnload Configurations	S Import Phonebook	Export Selected Phonebook	C LDAP Settings
PHONEBOOK DN \$				OPTIC
Phonebook on T				
II ou=pbx,dc=pbx,dc	=com			

LDAP Settings

Please note the LDAP contacts displayed on Wave will exclude the duplicate contacts from Cloud IM.

LDAP Settings	×
Display LDAP Contacts on Wave :	
Cancel	

Display LDAP Contacts on Wave

LDAP Client Configurations

The configuration on LDAP client is useful when you use other LDAP servers. Here we provide an example on how to configure the LDAP client on the UCM.

Assuming the remote server base dn is "dc=pbx,dc=com", configure the LDAP client as follows:

LDAP Client Type

Phonebook Name

Enter a name for the phonebook

Phonebook Name	Enter a name for the phonebook
Server Address	The IP address of the LDAP server
Base DN	Enter the base domain name.
Username	Enter the username used to authenticate into the LDAP server, if authentication is required.
Password	Enter the password used to authenticate into the LDAP server, if authentication is required.
Filter	Enter the filter. Ex: ((CallerIDName=%)(AccountNumber=%))

Port	Enter the port number. Default port is 389
LDAP Number Attributes	Enter the number attributes for the remote server.
Automatic Update Cycle	If "None" is selected, LDAP phonebooks will not automatically update. Otherwise, LDAP phonebooks will automatically update at 00:00 / 12:00 AM with the selected frequency.
LDAP Name Attributes	Enter the name attributes for the remote server.
Client Type	Choose the client type. For encrypted data transfer please choose LDAPS.
LDAP Client CA Cert	LDAP Client Public Certification
LDAP Client Private Key	LDAP Client Private Certification

The UCM can automatically update the phonebook, by configuring the 'LDAP Automatic Update Cycle'. Available options are: 1 day/2days/7 days. It is set to 'None' by default.

The following figure gives a sample configuration for UCM acting as a LDAP client.

Phonebook Download Con	figurations		C	ancel	Save
* LDAP Server :	LdapClient	* Server Address :	192.168.0.240		
* Base DN :	dc=pbx,dc=com	* Username :	cn=admin,dc=pbx,dc=com		
* Password :		* Filter:	(CallerlDName=%)		
* Port:	389	LDAP Name Attributes:	CallerIDName FirstName LastName		
Client Type:	LDAP ~	* LDAP Number Attributes :	MobileNumber HomeNumber AccountNumber		
LDAP Automatic Update Cycle :	None v				
LDAP Client CA Cert:	client.ca	Reset Certificates			
LDAP Client Private Key:	client.key	Reset Certificates			

LDAP Client Configurations

To configure Grandstream IP phones as the LDAP clients for UCM, please refer to the following example:

- Server Address: The IP address or domain name of the UCM
- **Base DN:** dc=pbx,dc=com
- **Username:** cn=admin,dc=pbx,dc=com

• **Password:** admin (by default)

• LDAP Name Attribute: CallerIDName Email Department FirstName LastName

- **LDAP Number Attribute:** AccountNumber MobileNumber HomeNumber Fax
- **LDAP Number Filter:** (AccountNumber=%)
- **LDAP Name Filter:** (CallerIDName=%)
- LDAP Display Name: AccountNumber CallerIDName
- LDAP Version: If existed, please select LDAP Version 3

• **Port:** 389

The following figure shows the configuration information on a Grandstream GXP2170 to successfully use the LDAP server as configured in [Figure 37:

LDAP Server Configurations].

LDAP							
LDAP protocol	LDAP T						
Server Address	192.168.40.134						
Port	389						
Base	dc=pbx,dc=com						
User Name							
Password							
LDAP Number Filter	(AccountNumber=%)						
LDAP Name Filter	(CallerIDName=%)						
LDAP Version	O Version 2 Version 3						
LDAP Name Attributes	CallerIDName						
LDAP Number Attributes	AccountNumber						
LDAP Display Name	AccountNumber CallerIDNa						
Max. Hits	50						
Search Timeout	30						
Sort Results	● No ○ Yes						
LDAP Lookup	Incoming Calls Outgoing Calls						
Lookup Display Name							
	Save Save and Apply Reset						

GXP2170 LDAP Phonebook Configuration

() The UCM63xx LDAP server is no longer supporting the anonymous binding of the LDAP client.

AD Client Type

Phonebook Name	Enter a name for the phonebook
Server Address	The IP address of the AD server

Base DN	Enter the base domain name.
Username	Enter the username used to authenticate into the LDAP server, if authentication is required.
Password	Enter the password used to authenticate into the LDAP server, if authentication is required.
Filter	Enter the filter. Ex: ((CallerIDName=%)(AccountNumber=%))
Port	Enter the port number. Default port is 389

AD Attributes	AccountNumber must be included if the default configuration is used.
Automatic Update Cycle	If "None" is selected, LDAP phonebooks will not automatically update. Otherwise, LDAP phonebooks will automatically update at 00:00 / 12:00 AM with the selected frequency.
Host Name	Enter the host name of the remote AD server.

Time Settings

Automatic Date and Time

The current system time on the UCM630X can be found under Web GUI→System Status→Dashboard→PBX Status.

To configure the UCM630X to update time automatically, go to Web GUI \rightarrow System Settings \rightarrow Time Settings \rightarrow Automatic date and Time.

The configurations under Web GUI->Settings->Time Settings-> Automatic date and Time page require reboot to take effect. Please consider configuring auto time updating related changes when setting up the UCM630X for the first time to avoid service interrupt after installation and deployment in production.

Remote NTP Server	Specify the URL or IP address of the NTP server for the UCM630X to synchronize the date and time. The default NTP server is pool.ntp.org.
Enable DHCP Option 2	If set to "Yes", the UCM630X can get provisioned for Time Zone from DHCP Option 2 in the local server automatically. The default setting is "Yes".
Enable DHCP Option 42	If set to "Yes", the UCM630X can get provisioned for NTP Server from DHCP Option 42 in the local server automatically. This will override the manually configured NTP Server. The default setting is "Yes".
Time Zone	Select the proper time zone option so the UCM630X can display correct time accordingly.

Table 21: Time Auto Updating

Set Date and Time

To manually set the time on the UCM630X, go to Web GUI \rightarrow System Settings \rightarrow Time Settings \rightarrow Set Date and Time. The format is YYYY-MM-DD HH:MM:SS.

Time Settings					
Automatic Date and Time	Set Date and Time	NTP Server	Office Time	Holiday	Cancel Save
Current Date and Time:	Select date 📰 Sele	ect time			
Date Format:	yyyy-mm-dd	~			
Time Format:	Use 24-hour Format	~			

Time Auto Updating

Note: Manually setup time will take effect immediately after saving and applying change in the Web GUI. If users would like to reboot the UCM630X and keep the manually setup time setting, please make sure "Remote NTP Server", "Enable DHCP Option 2" and "Enable DHCP Option 42" options under Web GUI→Settings→Time Settings→Auto Time Updating page are unchecked or set to empty. Otherwise, time auto updating settings in this page will take effect after reboot.

NTP Server

The UCM630X can be used as an NTP server for the NTP clients to synchronize their time with. To configure the UCM630X as the NTP server, set "Enable NTP server" to "Yes" under Web GUI \rightarrow System Settings \rightarrow Time Settings \rightarrow NTP Server. On the client side, point the NTP server address to the UCM630X IP address or host name to use the UCM630X as the NTP server.

Office Time

On the UCM630x, the system administrator can define "office time" which can be used to configure time condition for extension call forwarding and inbound rules. To configure office time, log in to the Web GUI, enter the **System Settings** \rightarrow **Time Settings** \rightarrow **Office Time**, and click the "Add" button to see the following configuration page.

Menus	·≡	Create New Office Time									
🗥 System Status	~										
🕂 Extension / Trunk	~	Time:	09:	00			3	- 18	8:00	O	
🗳 Call Features	~	Week:	Su	n	Mon	T	ue	We	d		
PBX Settings	~		Th	u	Fri	2	Sat				
System Settings	^	Show Advanced Options:	~								
HTTP Server		Month:	Jai	n	Feb	N	1ar	Ap	r		
Network Settings			Ma	-	Jun		ul lov	Au	_		
OpenVPN®			Se	DL	Oct		IOV	De	C		
		Day:	1	2	3	4	5	6	7		
DDNS Settings			8	9	10	11	12	13	14		
Security Settings			15	16	17	18	19	20	21		
LDAP Server			22	23	24	25	26	27	28		
LDAF Server			29	30	31						
Time Settings											

Create New Office Time

Configure the start time for office hour.

End Time	Configure the end time for office hour
Week	Select the workdays in one week.
Show Advanced Options	Check this option to show advanced options. Once selected, please specify "Month" and "Day" below.
Month	Select the months for office time.
Day	Select the workdays in one month.

Select "Start Time", "End Time" and the day for the "Week" for the office time. The system administrator can also define month and day of the month as advanced options. Once done, click on "Save" and then "Apply Change" for the office time to take effect. The office time will be listed in the web page as the figure shows below.

① The office hour feature support import/export CSV files.

Time Settings					
Automatic Date and Time	Set Date and Time	NTP Server	Office Time	Holiday	
+ Add 🗊 Delete	S Import S Export				
INDEX	TIME	WEEK	MONTH	DAY	OPTIONS
□ 1	09:00-18:00	Mon Tue Wed T	'hu Fri Default	Default	2 💼
		< <u>1</u>	>		Total: 1 10 / page ~

Settings \rightarrow Time Settings \rightarrow Office Time

- \circ Click on \square to edit the office time.
- Click on 🗇 to delete the office time.
- Click on "Delete" to delete multiple selected office times at once.

Holiday

On UCM, the system administrator can define "holidays" which can be used to configure time condition for extension call forwarding and inbound rules. To configure office time, log in to the Web GUI, enter the **System Settings** \rightarrow **Time Settings** \rightarrow **Holiday**, and click the "Add" button to see the following configuration page.

Create New Holiday											
* Name :											
Holiday Memo :											
Year:	202	22							2		
Month:	Jai		Feb		М	ar	Ар	r			
	Ma	y	Jun		Ju	ul	Au	g			
	Sej	ot	Oct		N	ov	De	c			
Day:	1	2	3	4	ł	5	6	7			
	8	9	10	1	1	12	13	14			
	15	16	17	18	8	19	20	21			
	22	23	24	2	5	26	27	28			
	29	30	31								
Show Advanced	~										
Options:											
Week:	Su	n	Mon		Т	Je	We	d			
	Th	u	Fri		S	at					
Time :	00:	00		C		-	23:59	9		3	

Create New Holiday

Name	Specify the holiday name to identify this holiday.
Holiday Memo	Create a note for the holiday.
Month	Select the month for the holiday.
Year	Select the Year for the holiday. Note: In the "Year" option, select "All" to set annual fixed holiday information.
Day	Select the day for the holiday.
Show Advanced Options	Check this option to show advanced options. If selected, please specify the days as holiday in one week below.
Week	Select the days as holiday in one week.
Time	Select the time on which the holiday starts.

Enter holiday "Name" and "Holiday Memo" for the new holiday. Then select "Month", "Day" and the exact "Hour". The system administrator can also define days in one week as advanced options. Once done, click on "Save" and then "Apply Change" for the holiday to take effect. The holiday will be listed in the web page as the figure shows.

Time Settings utomatic Date and Time	Set Date	and Time	NTP Server Of	fice Time	Holiday			
+ Add 🗊 Delete) Import	🕞 Export						
NAME	WEEK	YEAR	MONTH	DAY		TIME	HOLIDAY MEMO	OPTIONS
Custom	Sun Sat	2022	Mar	21,22		00:00-23:59	Enjoy your holiday	C 💼

Settings→*Time Settings*→*Holiday*

- \circ Click on \square to edit the holiday.
- \circ Click on $\overline{\mathbf{m}}$ to delete the holiday.
- Click on **"Delete"** to delete multiple selected holidays at once.

Email Settings

Email Settings

The Email application on the UCM630X can be used to send out alert event Emails, Voicemail (Voicemail-To-Email) etc. The configuration parameters can be accessed via Web GUI \rightarrow System Settings \rightarrow Email Settings.

TLS Enable	Enable or disable TLS during transferring/submitting your Email to another SMTP server. The default setting is "Yes".
Туре	 Select Email type. MTA: Mail Transfer Agent. The Email will be sent from the configured domain. When MTA is selected, there is no need to set up SMTP server for it or no user login is required. However, the Emails sent from MTA might be considered as spam by the target SMTP server. Client: Submit Emails to the SMTP server. A SMTP server is required, and users need login with correct credentials.
Domain	Specify the domain name to be used in the Email when using type "MTA".
SMTP Server	Specify the SMTP server when using type "Client".
Enable SASL Authentication	Enable SASL Authentication. When disabled, UCM will not try to use the username and password for mail client login authentication. Most of the mail server requires login authentication while some others private mail servers allow anonymous login which requires disabling this option to send Email as normal. For Exchange Server, please disable this option.
Username	Username is required when using type "Client". Normally it is the Email address.
Password	Password to login for the above Username (Email address) is required when using type "Client".
Enable Email- to-Fax	Monitors the inbox of the configured email address for the specified subject. If enabled, the UCM will get a copy of the attachment from the email and send it to the XXX extension by fax. The attachment must be in PDF/TIF/TIFF format.

Email-to-Fax Blacklist/Whiteli st	The user can enable the Email-to-Fax Blacklist or Email-to-Fax Whitelist.
Email-to-Fax Subject Format	Select the email subject format to use for emails to fax. XXX refers to the extension that the fax will be sent to. This extension can only contain numbers.
Internal Black/Whitelist	Email address blacklist/whitelist for local extensions.
External Blacklist/Whiteli st	Email address blacklist/whitelist for non-local contacts. Separate multiple addresses with semicolon (;) (i.e."xxx;yyy").
Fax Sending Success/Failure Confirmation	If enabled, the UCM will send an email notification to the sender about the fax sending result.
POP/POP3 Server Address	Configure the POP/POP3 server address for the configured username Example: pop.gmail.com
POP/POP3 Server Port	Configure the POP/POP3 server port for the configured username Example: 995
Display Name	Specify the display name in the FROM header in the Email.
Sender	Specify the sender's Email address. For example: pbx@example.mycompany.com.

Table 24: Email Settings

The following figure shows a sample Email setting on the UCM630X, assuming the Email is using 192.168.6.202 as the SMTP server.

Email Settings	Email Template	Email footer hyperlink	Email Send Log
TLS Enable:	l l	<u>v</u>	
Type:	[Client	~
Email Template Sen	ding Format:	HTML	~
* SMTP Server:	[192.168.6.202:25	
* Enable SASL Auther	ntication:	v	
* Username:	[GStest@gmail.com	
* Password :	[PyqN
Enable Email-to-Fax	:: [
POP/POP3 Server A	ddress:		
POP/POP3 Server P	ort:		
* Display Name :	[PBX	
* Sender:	[GStest@gmail.com	
Test			

UCM630X Email Settings

Once the configuration is finished, click on "Test". In the prompt, fill in a valid Email address to send a test email to verify the Email settings on the UCM630X.

Email Templates

The Email templates on the UCM630X can be used for email notification, the configuration parameters can be accessed via Web GUI \rightarrow Settings \rightarrow Email Settings \rightarrow Email Templates.

Users can customize email templates for password reset, voicemail, meeting scheduling, extensions, fax, meeting report, PMS, CDR, emergency call, missed calls, alert events, call queue statistics and etc.

◦ Click on ĭ icon to edit the template.

mail Settings	Email Template	Email Footer Hyperlink Email Se	end Log	
TYPE		NAME	TIME	OPTIONS
Multimedia Mee	eting Schedule	mcm_template.html	2022-04-19 17:29:59 UTC+01:00	Ľ
SLA Alert		callqueuesla_template.html	2022-03-31 13:07:37 UTC+01:00	Ľ
Wave Welcome		welcome_template.html	2022-03-31 13:07:37 UTC+01:00	Ľ
Remote Registra	ation	register_template.html	2022-03-31 13:07:37 UTC+01:00	Ľ
Extension		account_template.html	2022-03-31 13:07:37 UTC+01:00	Ľ
CDR		cdr_template.html	2011-12-03 11:30:03 UTC+01:00	Ľ
Fax		fax_template.html	2011-12-03 11:30:03 UTC+01:00	Ľ
Missed Calls		missedcall_template.html	2011-12-03 11:30:03 UTC+01:00	Ľ
Voicemail		voicemail_template.html	2011-12-03 11:30:03 UTC+01:00	Ľ
Call Queue Stati	istics	callqueuestatistics_template.html	2011-12-03 11:30:03 UTC+01:00	Ľ
Fax Sending		sendfax_template.html	2011-12-03 11:30:03 UTC+01:00	Ľ
Emergency Calls	5	emergency_template.html	2011-12-03 11:30:03 UTC+01:00	Ľ
Meeting Report		conferencereport_template.html	2011-12-03 11:30:03 UTC+01:00	Ľ

Email Template

1 Note

The "Multimedia Meeting Schedule" template is improved. Click on "Edit" for this template to view the improved default template.

- Added "Edge" and "Safari" as supported browser.
- Added "Download Wave" button for user to download Wave app from: https://fw.gdms.cloud/wave/download/
- Improved descriptions

Email Footer Hyperlink

Under UCM Web GUI→System Settings→Email Settings→Email Footer Hyperlink, users could edit the text and URL to modify the email footer hyperlink.





Email Footer Hyperlink

Email Send Log

Under UCM Web GUI->System Settings->Email Settings->Email Send Log, users could search, filter, and check whether the Email is sent out successfully

or not. This page will also display the corresponding error message if the Email is not sent out successfully.

Email Settings	Email Templ	ate Email footer hyperlin	k Email Send Log					
received a sent email, being received, please	please check to see check the inbox of	t be received. Therefore, even if an em if the sent email was placed in the reci the configured client email address for ites that the email has been sent succes	pient's trash or spam folder. In Cli- any email bounce notifications.	ent mode, a 250 return code indicate	is that the email has been sent succ	essfully to the configured SM1	P server. If emails from th	ne UCM are not
📋 Show All Logs	:言言 Clear	Delete Search Result(s)					c	Display Filter 🔍
EMAIL GENERATED	TIME 🗘	EMAIL SEND MODULE \$	RECEIVERS \$	LAST SEND TIME \$	LAST SEND ADDRESS \$	SEND RESULT \$	RETURN CODE ≑	OPTIONS
				No Data				

Email Send Log

Start Time	Enter the start time for the filter				
End Time	Enter the end time for the filter				
Receivers	Enter the email recipient, while searching for multiple recipients, please separate them with a comma and no spaces.				
Send Result	Enter the status of the send result to filter with				
Return Code	Enter the email code to filter with				
	Select the email module to filter with from the drop-down list, which contains:				
	• All Modules				
	• Extension				
	• Voicemail				
Email Send Module	• Conference Schedule				
	• User Password				
	• Alert Events				
	• CDR				
	• Test				

Table 25: Email Log – Display Filter

Email logs will be shown at bottom of the "Email Send Log" page, as shown in the following figure.

ail Settings	Email Template	Email Footer Hyperl	ink Email Send Log					
t received a sent email, j M are not being receive	please check to see if the d, please check the inbo	e sent email was placed in the x of the configured client ema	e recipient's trash or spam folder. In C all address for any email bounce notifi	ient mode, a 250 return cod cations.	d. Many email servers will place non-SPF le indicates that the email has been sent not being received, please check the in	successfully to the cor	figured SMTP server. If	emails from
Show All Logs	語 Clear 前 D							Display Filte
EMAIL GENERATED TIME	e 🗢 EMAIL	SEND MODULE \$	RECEIVERS \$	LAST SEND TIME \$	LAST SEND ADDRESS \$	SEND RESULT \$	RETURN CODE	OPTIO
2022-04-21 09:59:25	Wave	Welcome	grandstream.com	04-21 09:59:32	@grandstream.com	sent	250	1
2022-04-21 09:59:06	Remo	te Registration	grandstream.com	04-21 09:59:08	@grandstream.com	sent	250	(i)
2022-04-20 12:39:32	SLA A	lert	gmail.com	04-20 12:39:34	@gmail.com	sent	250	(i)
2022-04-19 17:45:07	SLA A	lert	mail.com	04-19 17:45:09	@gmail.com	sent	250	(i)
2022-04-19 17:39:59	SLA A	lert	grandstream.com	04-19 17:40:01	@grandstream.com	sent	250	(i)
2022-04-19 17:34:43	Test		gmail.com	04-19 17:34:45	@gmail.com	sent	250	()
2022-04-19 17:19:30	Test		gmail.com	04-19 17:19:31	@gmail.com	sent	250	()

Email Logs

Below are the codes returned when sending emails and their description:

Table 26: Email Codes

Code	Description
250	Mail sent successfully
501	Address format parsing error, 501 will be returned when there are unacceptable characters in the recipient's email address in MTA mode. Please check if the recipient's email address format is correct. The "sender" configured on the client is your mail account.
535	The username and password verification in the client mode is incorrect. Please check whether the username and password are configured correctly.
	Possible reasons: 1. The recipient's mailbox username does not exist or is in a banned state, please check whether the email recipient is the correct email address.
	2. The number of destination addresses sent by the sender exceeds the

550	maximum limit per day and is temporarily blacklisted. Please reduce the sending frequency or try again the next day.3. The sender's IP does not pass the SPF permission test of the sending domain. Emails sent in MTA mode may return this error code even if they are sent.
552	The sent email is too large or the email attachment type is prohibited

Code	Description
553	The sender and the email account are inconsistent, please configure the sender as your email account correctly.
554	The email was identified as spam. Please reduce the sending frequency or try again the next day
none	This indicates that there is no return code. If the sending result is "deferred", the general reason is that the mail service area is configured incorrectly. Please check whether the server configuration is correct. If the sending result is "bounced", the general reason is that the receiving email address domain name is wrong, please check whether the email recipient is the correct email address. If it is in MTA mode, please check whether the "domain" is configured to be in the same domain name as the "recipient".

SMS Settings

SMS Configuration

Configuring the SMS feature on the UCM6300 series allows the administrators to enable two-factor authentication, to send alerts, and meeting notices.

SMS Settings	> SMS Settings		
SMS Settings	SMS Template	SMS Delivery Log	Cancel
Enable SMS	~		
* SMS Carrier		\sim	
Region		\sim	
* Account ID			
* Secret			



SMS Settings

Enable SMS	Tick this box to enable SMS service.
SMS Carrier	Choose the SMS carrier:

	AmazonTwilio
Region	Choose the region.
Account ID	Enter the ID of the account created at the carrier.
Secret	Enter the secret code.
From	Enter the number phone allocated for the UCM.

SMS Template

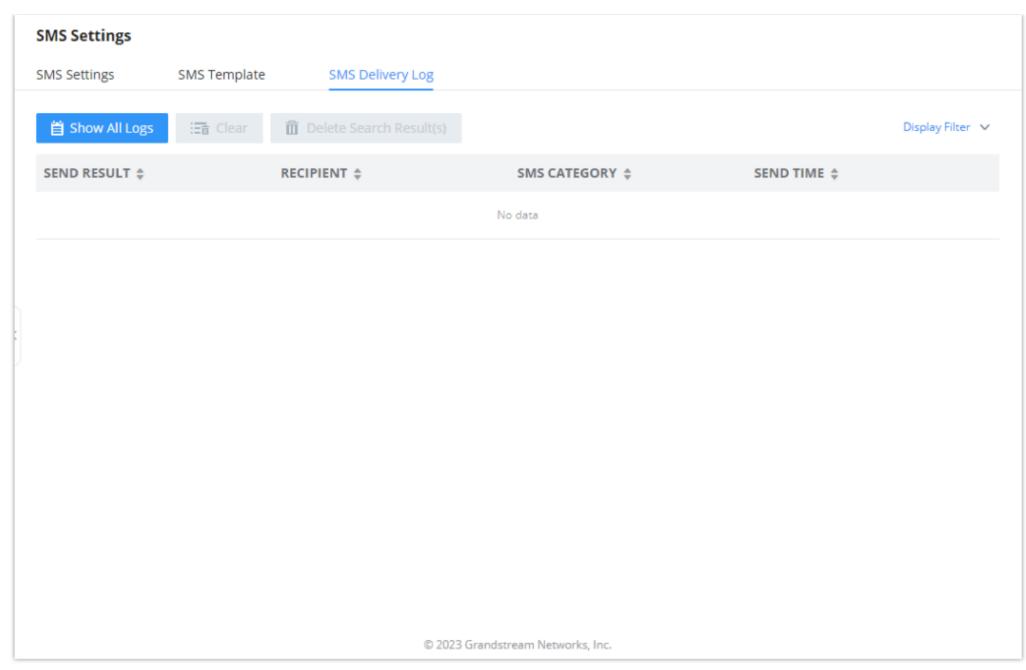
The template of the SMS can be modified in "SMS Template" tab. Please note that carriers may require to pre-register the templates for SMS that the UCM will send. Refer to the Amazon and Twilio documentation for more information.

SMS Settings > SMS	Settings			
SMS Settings	MS Template	SMS Delivery Log		
		ns, and carriers may require senders to pre-register templates for each type of m s can be found here: <u>Amazon</u> 、 <u>Twilio</u>	nessage they plan to send. Please refer to the	
ТҮРЕ	TEMPLA	TE CONTENT	OPTIONS	
Verification Code	[UCM] Yo	our verification code is \${code}. It will expire in 10 minutes.	C	
Alarm Notification	ILICM1 \$	hostName}(\${macAddr}) system event: \${content}	Ľ	

SMS Templates

SMS Delivery Log

All the SMS messages sent will be logged in the following tab.



SMS Delivery Log

HA

Dual-system hot standby provides a highly reliable and fault-tolerant solution for enterprises using the UCM6300 series/UCM6300A series. Based on two UCM devices of the same product model and software version, one of them is in the "Active" working state in real-time, and the other is in the "Standby" working state. The daily data on the host server will be synchronized to the standby machine in real-time, and the standby machine always monitors the running status of the host. When the host fails, including hardware failures and severe software failures, the standby machine will immediately take over the business and enter the "Active" working state, and Upgrade to a host to ensure that the business is not interrupted, and the call will automatically resume.

• Important Note

In order to set HA, both UCMs should have static IP addresses and their network method set to "Switch".

HA settings

The users can configure the HA under System Settings \rightarrow HA settings page.

HA			
HA Settings HA Log			Cancel Save
HA can be enabled only if the UCM	is using Switch or Route network mode an	nd a static IP address.	
When the HA IPv6 function needs t	o be turned on, it is recommended that the two UCMs shou	uld be restarted at the same time after completing the HA configuration.	
High Available Enable :			
HA Station Type:			
HA Cluster IP :			
HA Peer IP :			
HA Peer MAC Address :			
Heartbeat Port:	9527		
Heartbeat Timeout Period (s):	7		
Software Fault Switch:			
Hardware Fault Switch :	FX01 FX02 FX03 FX04 FX05 FX06 FX07 FX08		
Enable IPv6 :			

HA Settings

Parameter	Description
High Available Enable	Enables/disables the HA functionality. By default, is Disabled.
Force switch	After clicking the button, the active/standby switch will be enforced.
HA Station Type	The master and slave static configuration of the device, The real active/standby is decided dynamically by the active / standby.
HA Virtual IP	To carry the service, the main and standby computers should be set the same, and the intranet terminal should register and use the IP address.
HA Peer IP	Local IP address of HA peer device.
HA Peer MAC Address	Need to specify this peer MAC address while using the UCM RemoteConnect service.
Heartbeat Port	The number of the heartbeat port should be consistent with the peer heartbeat port.
Heartbeat Timeout Period (s)	If the timeout occurs, services will be transferred over to the Slave UCM.
Software Fault Switch	Enable Software Fault Switch
Hardware Fault Switch	If issues are detected with the selected connection interfaces, the backup UCM6510 will take over services after the master/slave

	handover. If not checked, UCM will send only a fault alarm.
Enable IPv6	If enabled, HA on UCM can be used with IPv6 while compatible with IPv4.

Table 27: HA Settings parameters

HA Status

Once the HA is configured, the user can view its status under system settings \rightarrow HA \rightarrow HA Status as shown below

HA			
HA Settings	HA Status	HA Log	
HA Status:		Dual	
HA Full Backu	p Status :	Idle	
MAC Address	of Current UCM :	C0:74:AD:99:99:02	
Role of Currer	nt UCM :	Active	

HA Status

HA Log

The user can view the HA log through the system settings \rightarrow HA \rightarrow HA log page. The HA log effectively records the execution results of past full backup actions, as well as the historical records that triggered the active/standby switchover.

Note

The UCM63xx series suppots SNMP to be able to use 3rd party monitoring tools to monitor both UCMs in HA setup.

SNMP

UCM63xx supports SNMP in case the system administrator chooses to use third party monitoring tools. These are the options available when setting up SNMP.

SNMP Settings

MP Settings	SNMP Community	SNMP Trap Destinations	SNMP V3 Users		
			SIMMP VS OSELS	SNMP Trap Proxy	
SNMP service uses por	rt 161 by default. Please mak	e sure part 161 is nat accupied be	fore enabling SNMP.		
Enable:					
Device Name:					
Device Location:					
Contact Email Addres	55 :				
Enable SNMP Trap Pro	гоху:				
SNMP Trap Proxy List	tening 162				
Port:					

SNMP Settings

Enable	Tick this box to enable SNMP.
Device Name	Enter the device name.
Location	Enter the location.
Contact Email Address	Enter the email address used to send the SNMP alerts to.
Enable SNMP Trap Proxy	Tick this box to enable a proxy for SNMP Trap.
SNMP Trap Proxy Listening Port	The port number on which the SNMP Trap Proxy is listening on.

SNMP Community

You can also create SNMP communities and affect a certain level of access. An SNMP community is a group created to aggregate many management stations. The community name is used to authenticate and identify these machines in the NMS (Network Management System).

Name: Access Level: Read Only	Save	ancel	Cancel			ommunity	w SNMP Co	Create New
Access Level : Read Only								* Name :
					~	Read Only	21:	* Access Level :

Create SNMP Community

Name	Enter a name for the community
Access Level	 Select an access level: Read Only: The SNMP community will be able only to read SNMP messages.

SNMP Traps Destinations

SNMP Traps is a very useful feature when there are many network components to manage. Instead of sending requests to all the machines in the network in order to view their SNMP logs risking slowing down or bringing the network to a complete halt, SNMP Traps can be configured so these machines can send unrequested messages to the manager to notify it about critical events and general failures.

Create New SNM	P Trap Destinations	p Destinations			stinations				
* Name:									
* IP Address :									
* Port:	162								
* Community:	Public	~							
* Type:	Trapsink	~							

Create SNMP Trap Destination

Name	Enter a name of your SNMP Trap destination.				
IP Address	Enter the SNMP Trap destination's IP address.				
Port	Enter the port of the SNMP Trap destination.				
Community	Select the community that you want				
Туре	 Select the type of SNMP: Trapsink: Select this option if you want to send SNMP v1 traps. Trap2sink: Select this option if you want to send SNMP v2 traps. Informsink: Select this option if you want to send "Inform" notifications only. 				

SNMP Version 3

UCM 63xx also supports SNMP v3 in case the system administrator decides to add more security to the monitoring process. SNMP v3 is a very good solution

to monitor devices that interface directly with Internet. SNMP v3 offers more security than its predecessors by hashing the authentication information,

encrypting the SNMP messages exchanged between the managed devices and the network management system which prevent eavesdropping. Also, it

prevents any data tampering which protects the integrity of the data exchanged.

~				
~				
~				
~				
~				
	~	~	~	×

SNMP V3 Configuration

Name	Set the user's name		
Authentication Protocol	Select the authentication protocol:MD5SHA		
Authentication Password	Set the authentication password.		
Privacy Protocol	 Select the protocol to use to encrypt the data DES AES-128 AES-192 AES-256 		
Privacy Password	Set the privacy password.		
Group Level	Set the group level:Read Only.Read/Write.		

SNMP Trap Proxy

Create New SNMP Trap Proxy	Cancel	Save
* Name :		
* IP Address:		
* Port:		

SNMP Trap Proxy

Name	Enter a name for the proxy server.

IP Address	Enter the proxy server's IP address.
Port	Enter the proxy server's port.

RADIUS

The UCM6300 offers Radius-based authentication for the super administrator and other administrators. This requires configuring a Radius server then enabling Radius client on the UCM6300 which can be found under **System Settings** \rightarrow **RADIUS**

Radius	
Supports configuring two types of account pri	ivileges on the Radius server: Super Administrator and Administrator.
Enable Radius Web Access Control	
As Default Login Method	
* Radius Auth Server Address	
* Radius Auth Server Port	1812
* Radius Shared Secret	<u>م</u> برد
* Maximum Number of Retransmission	5
* Radius Timeout (s)	3

Enable Radius Web Access Control	Enable or disable Radius.
As Default Login Method	Enable Radius as the default login method to the web UI of the UCM
Radius Auth Server Address	Enter the IP"address/hostname of Radius server.
Radius Auth Server Port	Enter the port of radius server Default port number is: 1812
Radius Shared Secret	Enter Radius Shared Secret
Maximum Number of Retransmission	Enter the number of retransmissions. The interval is 1 to 5.
Radius Timeout (s)	The maximum seconds before a session expires if there is no response from the server. The interval is between 1 to 30 seconds.

TR-069

To configure TR-069 on Grandstream devices, set the following parameters:

Parameter	Description
Enable TR-069	Toggle it on to enable TR-069. It is enabled by default
ACS URL	URL for TR-069 Auto Configuration Servers (ACS), e.g., http://myacs.grandstream.com
TR-069 Username	ACS username for TR-069 must be the same as in the ACS configuration.
TR-069 Password	ACS password for TR-069 must be the same as in the ACS configuration.
Periodic Inform Enable	Enables periodic inform. If set to Yes, the device will send inform packets to the ACS.
Periodic Inform Interval	A periodic time when UCM630X will send inform packets to TR-069 ACS server. This option is specified in seconds.
ACS Connection Request Username	The username for the ACS to connect to UCM.
ACS Connection Request Password	The password for the ACS to connect to UCM.
Connection Request Port	Port for incoming connection requests. The default value is 7547 .
CPE Cert File	The Cert file for UCM to connect to the ACS via SSL.
CPE Cert Key	The Cert key for UCM to connect to the ACS via SSL.

PROVISIONING

Overview

Grandstream SIP Devices can be configured via Web interface as well as via configuration file through TFTP/HTTP/HTTPS download. All Grandstream SIP devices support a proprietary binary format configuration file and XML format configuration file. The UCM630X provides a Plug and Play mechanism to auto-provision the Grandstream SIP devices in a zero-configuration manner by generating an XML config file and having the phone download it within the

LAN area. This allows users to finish the installation with ease and start using the SIP devices in a managed way.

To provision a phone, three steps are involved, i.e., discovery, configuration, and provisioning. This section explains how Zero Config works on the

UCM630X. The settings for this feature can be accessed via Web GUI**→Other Features→Zero Config**.

Configuration Architecture for End Point Device

Starting from firmware version 1.0.7.10, the end point device configuration in ZeroConfig is divided into the following three layers with priority from the lowest to the highest:

• Global

This is the lowest layer. Users can configure the most basic options that could apply to all Grandstream SIP devices during provisioning via Zero config.

• Model

In this layer, users can define model-specific options for the configuration template.

• **Device**

This is the highest layer. Users can configure device-specific options for the configuration for the individual device here.

Each layer also has its own structure at different levels. Please see the figure below. The details for each layer are explained in sections *[Global Configuration]*, *[Model configuration]* and *[Device Configuration]*.

Special Settings	
Basic Settings	
Model Templates	
Default Model Templates	
Global Templates	
Global Policy	
	Default Model Templates Global Templates

Zero Config Configuration Architecture for End Point Device

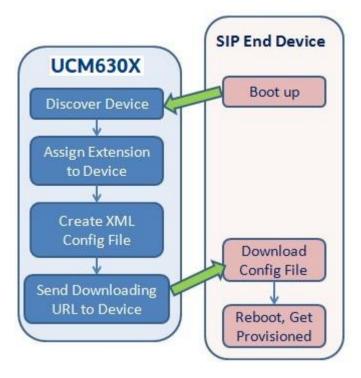
The configuration options in the model layer and device layer have all the option in global layers already, i.e., the options in the global layer is a subset of the options in the model layer and the device layer. If an option is set in all three layers with different values, the highest layer value will override the value in the lower layer. For example, if the user selects English for Language setting in Global Policy and Spanish for Language setting in Default Model Template, the language setting on the device to be provisioned will use Spanish as the model layer has higher priority than the global layer. To sum up, **configurations in the higher layer will always override the configurations for the same options/fields in the lower layer when presented at the same time.**

After understanding the zero-config configuration architecture, users could configure the available options for end point devices to be provisioned by the UCM630X by going through the three layers. This configuration architecture allows users to set up and manage the Grandstream end point devices in the

same LAN area in a centralized way.

Auto-Provisioning Settings

By default, the Zero Config feature is enabled on the UCM630X for auto-provisioning. Three methods of auto-provisioning are used.



UCM630X Zero Config

• SIP SUBSCRIBE

When the phone boots up, it sends out SUBSCRIBE to a multicast IP address in the LAN. The UCM630X discovers it and then sends a NOTIFY with the XML config file URL in the message body. The phone will then use the path to download the config file generated in the UCM630X and take the new configuration.

• DHCP OPTION 66

Route mode needs to be set to use this feature. When the phone restarts (by default DHCP Option 66 is turned on), it will send out a DHCP DISCOVER request. The UCM630X receives it and returns DHCP OFFER with the config server path URL in Option 66, for example, https://192.168.2.1:8089/zccgi/. The phone will then use the path to download the config file generated in the UCM630X.

• mDNS

When the phone boots up, it sends out an mDNS query to get the TFTP server address. The UCM630X will respond with its address. The phone will then send a TFTP request to download the XML config file from the UCM630X.

To start the auto-provisioning process, under Web GUI \rightarrow Other Features \rightarrow Zero Config \rightarrow Zero Config Settings, fill in the auto provision information.

Zero Config						
Zero Config	Global Policy	Global Templ	ates Model Templa	ates Model Update	Zero Config Set	tings
Basic Setting	gs					
Enable Zero C	onfig: 🗹	l i				
Enable Autom	atic Configuration]				
Assignment :						
Extension A	ssignment					
	automatically provides a methods of auto provision					
For example, v	when the device boots up	o, it will send SIP SUBS	CRIBE multicast in the LAN. The F	PBX will find it, create an account a	nd return a URL of the config	g file for the device to download.
Auto Assign E	ktension:]				
Zero Config Ex	tension 50	000 - 6299	Zero Config Extension Segm	ient		
Segment:						
Enable Pick Ex	tension :]				
Pick Extension	Segment: 40	000 - 4999	Pick Extension Segment			
Pick Extension	Period (hour):					
Network Set	tings					
Subnet Whitel	ist: 1	192.168.6.0/24		•		
			Add Subnet Whitelis	± ⊕		
		Save				

Auto Provision Settings

Enable Zero Config	Enable or disable the zero-config feature on the PBX. The default setting is enabled.
Enable Automatic Configuration Assignment	By default, this is disabled. If disabled, when the SIP device boots up, the UCM630X will not send the SIP device the URL to download the config file, and therefore the SIP device will not be automatically provisioned by the UCM630X. Note: When disabled, SIP devices can still be provisioned by manually sending NOTIFY from the UCM630X which will include the XML config file URL for the SIP device to download.
Auto Assign Extension	If enabled, when the device is discovered, the PBX will automatically assign an extension within the range defined in "Zero Config Extension Segment" to the device. The default setting is disabled.
Zero Config Extension Segment	Click on the link "Zero Config Extension Segment" to specify the extension range to be assigned if "Automatically Assign Extension" is enabled. The default range is 5000-6299. Zero Config Extension Segment range can be defined in Web GUI→PBX Settings→General Settings→General page→Extension Preference section: "Auto Provision Extensions".
Enable Pick Extension	If enabled, the extension list will be sent out to the device after receiving the device's request. This feature is for the GXP series phones that support selecting extensions to be provisioned via the phone's LCD. The default setting is disabled.
Pick Extension Segment	Click on the link "Pick Extension Segment" to specify the extension list to be sent to the device. The default range is 4000 to 4999. Pick Extension Segment range can be defined in Web GUI \rightarrow PBX Settings \rightarrow General Settings \rightarrow General page \rightarrow Extension Preference section: "Pick Extensions".
Pick Extension Period (hour)	Specify the number of minutes to allow the phones being provisioned to pick extensions.
Subnet Whitelist	This feature allows the UCM to provision devices in different subnets other than the UCM network. Enter subnets IP addresses to allow devices within these subnets to be provisioned. The syntax is <ip>/<cidr>. Examples: 10.0.0.1/8 192.168.6.0/24 Note: Only private IP ranges (10.0.0.0 172.16.0.0 192.168.0.0) are supported.</cidr></ip>

Table 28: Auto Provision Settings

Please make sure an extension is manually assigned to the phone or "Automatically Assign Extension" is enabled during provisioning. After the configuration on the UCM630X Web GUI, click on "Save" and "Apply Changes". Once the phone boots up and picks up the config file from the UCM630X, it will take the configuration right away.

Discovery

Grandstream endpoints are automatically discovered after bootup. Users could also manually discover devices by specifying the IP address or scanning the

entire LAN network. Three methods are supported to scan the devices.

- PING
- ARP
- SIP Message (NOTIFY)

Click on "Auto Discover" under Web GUI \rightarrow Other Features \rightarrow Zero Config \rightarrow Zero Config, fill in the "Scan Method" and "Scan IP". The IP address segment will be automatically filled in based on the network mask detected on the UCM630X. If users need to scan the entire network segment, enter 255 (for example, 192.168.40.255) instead of a specific IP address. Then click on "Save" to start discovering the devices within the same network. To successfully discover the devices, "Zero Config" needs to be enabled on the UCM630X Web GUI \rightarrow Other Features \rightarrow Zero Config \rightarrow Auto Provisioning Settings.

Auto Discover	×				
The PBX can automatically discover new devices via ARP, PING or SIP Message by scanning the entire network segment or a single IP address.					
PBX LAN/LAN1 Address :	192.168.5.147				
Network Segment:	192.168.5.0 - 192.168.5.255				
Broadcast IP:	192.168.5.255				
Scan Method:	SIP-Message v				
Subnet Whitelist :	Local Subnet Only 🗸				
Scan IP:	192.168.5.137				
	Cancel OK				

Auto Discover

The following figure shows a list of discovered phones. The MAC address, IP Address, Extension (if assigned), Version, Vendor, Model, Connection Status, Create Config, Options (Edit /Delete /Update /Reboot /Access Device Web GUI) are displayed in the list.

MAC ADDRESS 🖨	IP ADDRESS 👙	EXTENSION	VERSION \$	VENDOR \$	MODEL 🔶	CREATE CONFIG	OPTIONS
000B82000001	<u>192.168.2.111</u>	1000	unknown	GRANDSTREAM	GXV3275		🗹 🛅 💩 🖒 🧭
000B8227FB15	<u>192.168.2.108</u>		1.0.3.208	GRANDSTREAM	GXV3275		l 🛅 📣 🖱 🖉
000B82A46ACE	<u>192.168.2.106</u>		1.0.0.36	GRANDSTREAM			l 🛅 💩 🖱 🖉
000B82D33AC4	<u>192.168.2.105</u>		20.19.10.30	GRANDSTREAM			l 🛅 💩 🖱 🖉
000B82F66470	<u>192.168.2.107</u>		10.19.9.26	GRANDSTREAM		-	l 🔲 💩 🖱 🖉

Figure 65: Discovered Devices

When the UCM is set to "Dual" network method, the user will be able to choose which LAN interface to use for Auto-Discovery.

Auto Discover The PBX can automatically discover new devices via ARP, PING or SIP Message by scanning entire network segment or a single IP address. Interface: LAN 1 PBX Network LAN 1 Interface IP Address LAN 1 Network Segment: Interface Science Network Segment: 192.168.50.0 - 192.168.50.255 Auto Discover LANI/LAN2

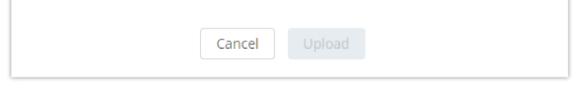
Firmware

In Firmware tab, users can upload to and manage firmware for endpoints. Additionally, firmware upload size limit has been increased from 300MB to 1GB.

Zero Config	5							
< es Mo	odel Templates	Model Update	Firmware	Zero Config Settir	ngs >		Cancel	Save
Firmware Stor Path	rage : 💿 Local							
Firmware List								
NAME 🗘	MODEL \$	FIRMWARE VERSION	•	DATE 🗢	SIZE \$	STATUS \$		OPTIONS
			No Dat	a				
	Сор	yright © Grandstream Netwo	rks, Inc. 2022. All Rights	Reserved.				

Upload Firmware Files to the UCM

Upload New Firmware		×
* Enable :	<	
Model:		
Firmware Version:		
Remark :		
Choose File to : Upload	Choose File to Upload	



Upload New Firmware

- Enable: toggles whether the UCM will provision this firmware to endpoints if they are using the UCM as the firmware server. If not enabled, the UCM will reject requests from endpoints for this firmware.
- Model: The device model for which this firmware is intended for. Only for self-reference and has no effect on provisioning.
- Firmware: The firmware version of the file being uploaded. Only for self-reference and has no effect on provisioning.
- **Remark:** Add a comment about the uploaded firmware. Only for self-reference and has no effect on provisioning.

• Choose File to Upload: Select the firmware file to upload from the user's PC. The file name must match the firmware file name requested by the endpoint.

Uploading Devices List

Besides the built-in discovery method on the UCM, users could prepare a list of devices on a .CSV file and upload it by clicking on the button "Import", after which a success message prompt should be displayed.

Users need to make sure that the CSV file respects the format as shown on the following figure and that the entered information is correct (valid IP address, valid MAC address, device model, and an existing account), otherwise the UCM will reject the file and the operation will fail:

	Α	В	С	D	E	F	G	н	I	J	К	L	M	N
1	===== Devic	e Start ======	=											
2	config_name	vendor	state	ip	account_secre	file_url	url_paramete	last_access	mac	version	ad_state	model	hot_desking	port
3		Grandstream	1	192.168.5.1	72	https://19	2.168.5.147:808	*****	000B82499	1.0.7.10		0 GXW4248	no	5060
4														
5	====== Devic	e Start ======	=											
6	config_name	vendor	state	ip	account_secre	file_url	url_paramete	last_access	mac	version	ad_state	model	hot_desking	port
7		Grandstream	1	192.168.5.1	14	https://19	2.168.5.147:808	*****	000B826B	1.0.3.227		0 GXV3240	no	5060
8														
9	====== Devic	e Start ======	=											
10	config_name	vendor	state	ip	account_secre	file_url	url_paramete	last_access	mac	version	ad_state	model	hot_desking	port
11		Grandstream	1	192.168.5.2	01	https://19	2.168.5.147:808	*****	000B826F9	1.0.1.106		0	no	5080

Device List – CSV file Sample

Managing Discovered Devices

- Sorting: Press or to sort per MAC Address, IP Address, Version, Vendor, Model or Create Config columns from lower to higher or higher to lower, respectively.
- Filter: Select a filter Filter: All v to display corresponding results.
- All: Display all discovered devices.
- Scan Results: Display only manually discovered devices. [Discovery]
- IP Address: Enter device IP and press the Search button.
- MAC Address: Enter device MAC and press the Search button.
- Model: Enter a model name and press the Search button. Example: GXP2130.
- Extension: Enter the extension number and press the Search button.

Zero	Config														
ero C	onfig	Global Poli	icy Glo	bal Templates	Model Template	s Mod	el Update	Z	ero Config Settings						
🖬 Al	ito Discover	+ Add	🗊 Delete	🗹 Edit	C Update Config	🖒 Reboot	More v								
-ilter:	All	~					Import								
							Export								
	MAC ADDRESS	¢ IP A	DDRESS 💠	EXTENSION	VERSION 👙	VENDOR \$	Reset	DEL 🔶	CREATE CO 💠				C	PTION	1
~	000B825C59	CB <u>192</u>	2.168.5.183	-	1.0.9.148	GRANDSTR	Сору	2140		Ľ	Û	0	\bigcirc	Ø	
	000B826258	3D <u>192</u>	2.168.5.179	-	1.0.9.25	GRANDSTR	EAM G	XP2130	-	Ľ	Î	0	Ċ	ø	
	000B826B1A	.63 <u>192</u>	2.168.5.160	-	1.0.3.225	GRANDSTR	AM G	XV3240	2021-01-18	Ľ	Ô	0	\bigcirc	Ø	
	000B826F91	E3 <u>192</u>	2.168.5.113	-	1.0.1.106	GRANDSTRE	AM			Ľ	Î	ø	Ċ	ø	
	000B827119	B5 192	.168.5.37		1.0.3.23	GRANDSTR	AM			ß	Î	0	Ċ	Ø	

Managing Discovered Devices

From the main menu of ZeroConfig, users can perform the following operations:

- Click Auto Discover to access the discovery menu as shown on the [Discovery] section.
- Click Add to add a new device to the ZeroConfig database using its MAC address.
- Click **Delete** to delete selected devices from the zero-config database.
- Click Edit to modify selected devices.
- Click Update Config to batch update a list of devices, the UCM on this case will send SIP NOTIFY message to all selected devices to update them at once.
- Click Reboot to reboot selected devices (the selected devices, should have been provisioned with extensions since the phone will authenticate the server which is trying to send it reboot command).
- Click Reset to clear all devices configurations.
- Click Import to upload CSV file containing a list of devices.
- Click Export to export CSV file containing a list of devices. This file can be imported to another UCM to quickly set it up with the original UCM's devices.
- Click **Copy** to copy configuration from one device to another. This can be useful for easily replacing devices and note that this feature works only between devices of the same model.

All these operations will be detailed in the next sections.

Global Configuration

The global configuration will apply to all the connected Grandstream SIP end point devices in the same LAN with the UCM630X no matter what the Grandstream device model it is. It is divided into two levels:

- Global Policy
- Global Templates

Global Templates configuration has higher priority to Global Policy configuration.

Global Policy

Global Policy can be accessed in Web GUI \rightarrow Other Features \rightarrow Zero Config \rightarrow Global Policy page. On the top of the configuration table, users can select a category in the "Options" dropdown list to quickly navigate to the category or they can also complete the configuration by importing/exporting. The

categories are:

• Localization: configure display language, data, and time.

• **Phone Settings**: configure the dial plan, call features, NAT, call progress tones, etc.

• Contact List: configure LDAP and XML phonebook download.

• Maintenance: configure upgrading, web access, Telnet/SSH access, and Syslog.

• Network Settings: configure the IP address, QoS, and STUN settings.

• **Customization**: customize LCD screen wallpaper for the supported models.

• **Communication Settings**: configure Email and FTP settings

Select the checkbox on the left of the parameter you would like to configure to activate the dropdown list for this parameter.

Zero Config						
Zero Config	Global Policy	Global Templates	Model Templates	Model Update	Zero Config Settings	Cancel Save
The Global Policy c	onfiguration will be applied	I to all devices. Specific model co	infigurations, if any, will be appl	ied on top of the Global Poli	-y	
) Import	🕞 Export					
> Localization						
> Phone Settings						
> Contact List						
> Maintenance						
> Network Settin	gs.					
> Customization						
> Communicatio	n Settings					

Global Policy Categories

The following tables list the Global Policy configuration parameters for the SIP end device.

Language settings	
Language	Select the LCD display language on the SIP end device.
Date and Time	
Date Format	Configure the date display format on the SIP end device's LCD.
Time Format	Configure the time display in 12-hour or 24-hour format on the SIP end device's LCD.
Enable NTP	To enable the NTP service.
NTP Server	Configure the URL or IP address of the NTP server. The SIP end device may obtain the date and time from the server.
NTP Update Interval	Configure the NTP update interval.
Time Zone	Configure the time zone used on the SIP end device.
Enable Daylight Saving Time	Select either to enable or disable the DST.

Default (Call
-----------	------

Settings

Dial Plan	Configure the default dial plan rule. For syntax and examples, please refer to the user manual of the SIP devices to be provisioned for more details.
Enable Call Features	When enabled, "Do Not Disturb", "Call Forward" and other call features can be used via the local feature code on the phone. Otherwise, the ITSP feature code will be used.
Use # as Dial Key	If set to "Yes", pressing the number key "#" will immediately dial out the input digits.

Auto Answer by Call-info	If set to "Yes", the phone will automatically turn on the speaker phone to answer incoming calls after a short reminding beep, based on the SIP Call-Info header sent from the server/proxy. The default setting is enabled.
NAT Traversal	Configure if NAT traversal mechanism is activated.
User Random Port	If set to "Yes", this parameter will force random generation of both the local SIP and RTP ports.
General Settings	
	Configure call progress tones including ring tone, dial tone, second dial tone, message waiting tone, ring back tone, call waiting tone, busy tone, and reorder tone using the following syntax: $f_{1} = \frac{1}{2} $
Call Progress Tones	 f1=val, f2=val[, c=on1/ off1[- on2/ off2[- on3/ off3]]]; Frequencies are in Hz and cadence on and off are in 10ms). "on" is the period (in ms) of ringing while "off" is the period of silence. Up to three cadences are supported. Please refer to the user manual of the SIP devices to be provisioned for more details
HEADSET Key Mode	Select "Default Mode" or "Toggle Headset/Speaker" for the Headset key. Please refer to the user manual of the SIP devices to be provisioned for more details.

Table 30: Global Policy Parameters – Phone Settings

LDAP Phonebook	
Source	 Select "Manual" or "PBX" as the LDAP configuration source. If "Manual" is selected, the LDAP configuration below will be applied to the SIP end device. If "PBX" is selected, the LDAP configuration built-in from UCM630X Web GUI→System Settings→LDAP Server will be applied.
Address	Configure the IP address or DNS name of the LDAP server.
Port	Configure the LDAP server port. The default value is 389.
Base DN	 This is the location in the directory where the search is requested to begin. Example: dc=grandstream, dc=com ou=Boston, dc=grandstream, dc=com
Username	Configure the bind "Username" for querying LDAP servers. The field can be left blank if the LDAP server allows anonymous binds.

Password	Configure the bind "Password" for querying LDAP servers. The field can be left blank if the LDAP server allows anonymous binds.
Number Filter	Configure the filter used for number lookups. Please refer to the user manual for more details.
Name Filter	Configure the filter used for name lookups. Please refer to the user manual for more details.
Version	Select the protocol version for the phone to send the bind requests. The default value is 3.
Name Attribute	Specify the "name" attributes of each record that are returned in the LDAP search result. Example: gn cn sn description
Number Attribute	Specify the "number" attributes of each record that are returned in the LDAP search result. Example: telephoneNumber telephoneNumber Mobile
Display Name	Configure the entry information to be shown on the phone's LCD. Up to 3 fields can be displayed. Example: %cn %sn %telephoneNumber
Max Hits	Specify the maximum number of results to be returned by the LDAP server. The valid range is 1 to 3000. The default value is 50.
Search Timeout	Specify the interval (in seconds) for the server to process the request and the client waits for the server to return. The valid range is 0 to 180. The default value is 30.
Sort Results	Specify whether the searching result is sorted or not. The default setting is No.
Incoming Calls	Configure to enable LDAP number searching when receiving calls. The default setting is No.

Outgoing Calls	Configure to enable LDAP number searching when making calls. The default setting is No.
Lookup Display Name	Configures the display name when LDAP looks up the name for an incoming call or outgoing call. It must be a subset of the LDAP Name Attributes.
XML Phonebook	

	Select the source of the phonebook XML server.
	• Disable
	Disable phonebook XML downloading.
	• Manual
Phonebook XML Server	Once selected, users need to specify downloading protocol HTTP, HTTPS, or TFTP and the server path to download the phonebook XML file. The server path could be an IP address or URL, with up to 256 characters.
	• Local UCM Server
	Once selected, click on the Server Path field to upload the phonebook XML file. Please note after uploading the phonebook XML file to the server, the original file name will be used as the directory name and the file will be renamed as phonebook.xml under that directory.
Phonebook Download Interval	Configure the phonebook download interval (in minutes). If set to 0, the automatic download will be disabled. The valid range is 5 to 720.
Remove manually edited entries on download	If set to "Yes", when XML phonebook is downloaded, the entries added manually will be automatically removed.

Table 31: Global Policy Parameters – Contact List

Upgrade and Provision

	Firmware source via ZeroConfig provisioning could be a URL for external server address, local UCM directory, or USB media if plugged into the UCM630X. Select a source to get the firmware file:
	• URL
	If selected to use URL to upgrade, complete the configuration for the following four parameters: "Upgrade Via", "Server Path", "File Prefix" and "File Postfix".
	• Local UCM Server
	Firmware can be uploaded to the UCM630X internal storage for firmware upgrade. If selected, click on the "Manage Storage"
Firmware Source	icon next to the "Directory" option, upload the firmware file, and select a directory for the end device to retrieve the firmware file.
	• Local USB Media
	If selected, the USB storage device needs to be plugged into the UCM630X and the firmware file must be put under a folder
	named "ZC_firmware" in the USB storage root directory.
	• Local SD Card Media
	If selected, an SD card needs to be plugged into the UCM630X and the firmware file must be put under a folder named
	"ZC_firmware" in the USB storage root directory.
Upgrade via	When URL is selected as firmware source, configure upgrade via TFTP, HTTP, or HTTPS.
Server Path	When URL is selected as firmware source, configure the firmware upgrading server path.
File Prefix	Configure the Config Server Path.
Config Server Path	When URL is selected as firmware source, configure the firmware file postfix. If configured, only the configuration file with the matching encrypted postfix will be downloaded and flashed into the phone.
Allow DHCP Option 43/66	If DHCP option 43 or 66 is enabled on the LAN side, the TFTP server can be redirected.

	If enabled, the end point device will automatically upgrade if a new firmware is detected. Users can select automatic upgrading by day, by week, or by minute.			
	• By week			
	Once selected, specify the day of the week to check the HTTP/TFTP server for firmware upgrades or configuration files changes.			
Automatic Upgrade	∘ By day			
	Once selected, specify the hour of the day to check the HTTP/TFTP server for firmware upgrades or configuration files changes.			
	• By minute			
	Once selected, specify the interval \mathbf{X} that the SIP end device will request for new firmware every \mathbf{X} minutes.			
Firmware Upgrade Rule	Specify how firmware upgrading and provisioning requests are to be sent.			
Zero Config	Select either to enable or disable Zero Config.			
Web Access				
Admin Password	Configure the administrator password for admin-level login.			
End-User Password	Configure the end-user password for the end-user level login.			
Web Access Mode	Select HTTP or HTTPS as the web access protocol.			
Web Server Port	Configure the port for web access.			
web server rort	The valid range is 1 to 65535.			
RTSP Port	Configure the RTSP Port.			
Enable UPnP Discovery	Select either to enable or disable Enable UPnP Discovery			

Login Settings	Configure the login settings.	
User Login Timeout	Configure User Login Timeout.	
Maximum Consecutive Failed Login Attempts	Configure Maximum Consecutive Failed Login Attempts.	
Login Error Lock Time	Configure Login Error Lock Time.	

Security	
Disable Telnet/SSH	Enable Telnet/SSH access for the SIP end device. If the SIP end device supports Telnet access, this option controls the Telnet access of the device; if the SIP end device supports SSH access, this option controls the SSH access of the device.
Syslog	
Syslog Server	Configure the URL/IP address for the Syslog server.
Syslog Level	Select the level of logging for Syslog.
Send SIP Log	Configure whether the SIP log will be included in the Syslog message.

Table 32: Global Policy Parameters – Maintenance

Basic Settings	
IP Address	Configure how the SIP end device shall obtain the IP address. DHCP or PPPoE can be selected.
Host Name	Specify the name of the client. This field is optional but may be required by Internet Service Providers.
Vendor Class ID	Used by clients and servers to exchange vendor class ID.
Account ID	Enter the PPPoE account ID.
Password	Enter the PPPoE Password.
Service Name	Enter the PPPoE Service Name.

Advanced Setting	
Layer 3 QoS	Define the Layer 3 QoS parameter. This value is used for IP Precedence, Diff-Serv, or MPLS. The valid range is 0-63.
Layer 3 QoS For RTP	Assign the priority value of the Layer 3 QoS for RTP packets. The valid range is 0 -63.

Layer 3 QoS For	Assign the priority value of the Layer 3 QoS for SIP packets.		
SIP	The valid range is 0 -63.		
Layer 2 QoS Tag	Assign the VLAN Tag of the Layer 2 QoS packets.		
Lujer 2 (105 rug	The valid range is 0 -4095.		
Layer 2 QoS	Assign the priority value of the Layer 2 QoS packets.		
Priority Value	The valid range is 0-7.		
STUN Server	Configure the IP address or Domain name of the STUN server. Only non-symmetric NAT routers work with STUN.		
Keep-Alive	Select either to enable or disable Keep Alive.		
Keep Alive Interval	Specify how often the phone will send a blank UDP packet to the SIP server to keep the "ping hole" on the NAT router open. The valid range is 10-160.		
Register Expiration	Specify the Register Expiration.		
Local SIP Port	Configure Local SIP Port.		
Local RTP Port	Configure Local RTP Port.		
Auto On-Hook Timer(s)	Configure Auto On-Hook Timer(s).		
Ring Timeout	Configure Ring Timeout.		
SIP Transport	Select either UDP, TCP, or TLS/TCP as SIP transport protocol.		
Direct IP Call	Select either to disable or enable Direct IP Call support.		
SIP Proxy Compatibility Mode	Select either to disable or enable SIP Proxy Compatibility Mode.		
Unregister On Reboot	Select either to disable or enable Unregister On Reboot.		
Whitelist			
Whitelist	Select either to enable or disable Whitelist		
SIP Phone Number Whitelist	Configure the SIP Phone Number Whitelist.		

Table 33: Global Policy Parameters – Network Settings

Wallpaper			
Screen Resolution Check this option if the SIP end device shall use 1024 x 600 resolution for the LCD screen wallpaper. Screen Resolution Configure the location where wallpapers are stored. 1024 x 600 o File If "URL" is selected as the source, specify the URL of the wallpaper file. If "Local UCM Server" is selected as the source to upload wallpaper file to the UCM630X.			
Screen Resolution 800 x 400	 heck this option if the SIP end device shall use 800 x 400 resolution for the LCD screen wallpaper. Source onfigure the location where wallpapers are stored. File "URL" is selected as the source, specify the URL of the wallpaper file. If "Local UCM Server" is selected as the source, click upload wallpaper file to the UCM630X. 		
Screen Resolution 480 x 272	Check this option if the SIP end device shall use 480 x 272 resolution for the LCD screen wallpaper. 60 Source 60 Configure the location where wallpapers are stored. 6 File 11 "URL" is selected as the source, specify the URL of the wallpaper file. If "Local UCM Server" is selected as the source, click to upload wallpaper file to the UCM630X.		
Screen Resolution 320	 Check this option if the SIP end device supports 320 x 240 resolution for the LCD screen wallpaper. Source Configure the location where wallpapers are stored. 		

• File

If "URL" is selected as the source, specify the URL of the wallpaper file. If "Local UCM Server" is selected as the source, click to upload wallpaper file to the UCM630X.

Table 35: Global Policy Parameters – Communication Settings

Email Settings

	Check this option to configure the email settings that will be sent to the provisioned phones:
	• Server
	The IP address of the SMTP server
	• Port
	SMTP server port
	• From E-Mail address
	Email address
	• Sender Username
SMTP Settings Username of the sender	
	• Password Recovery Email
	Email where the recovered password will be sent
	• Alarm receive Email 1
	Email address where alarms notifications will be sent
	◇ Alarm receive Email 1
	Email address where alarms notifications will be sent
	• Enable SSL
	Enable SSL protocol for SMTP
FTP	

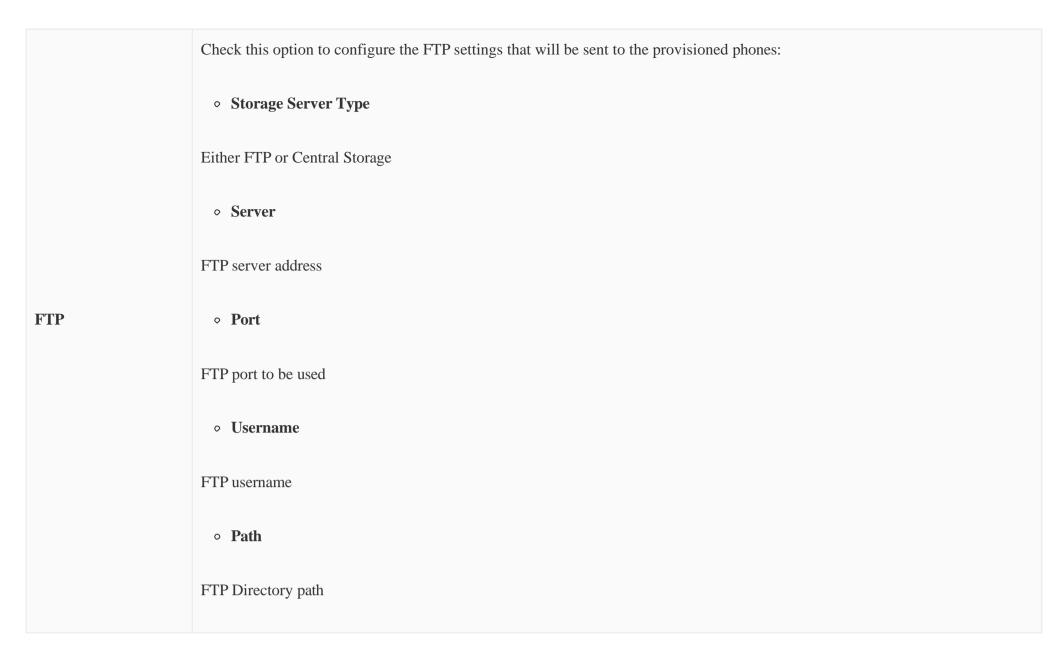


Table 34: Global Policy Parameters – Customization

Global Templates

Global Templates can be accessed in Web GUI \rightarrow Other Features \rightarrow Zero Config \rightarrow Global Templates. Users can create multiple global templates with different sets of configurations and save the templates, or click on the "Import/Export" button to add multiple global templates. Later on, when the user configures the device in the Edit Device dialog \rightarrow Advanced Settings, the user can select to use one of the global templates for the device. Please refer to section *[Manage Devices]* for more details on using the global templates.

When creating a global template, users can select the categories and the parameters under each category to be used in the template. The global policy and the selected global template will both take effect when generating the config file. However, the selected global template has higher priority to the global policy when it comes to the same setting option/field. If the same option/field has a different value configured in the global policy and the selected global template, the value for this option/field in the selected global template will override the value in global policy.

Click on "Add" to add a global template. Users will see the following configurations.

Template	Name
-----------------	------

Create a name to identify this global template.

Description	Describe the global template. This is optional.
Active	Check this option to enable the global template.

Table 36: Create New Template

The window for editing the global template is shown in the following figure. In the "Options" field, after entering the option name keyword, the options

containing the keyword will be listed. Users could then select the options to be modified under the global template.

Edit Global Templates: test		
* Template Name :	Branch	
Description :	Branch off	fice phone providion
Active :	~	
Options:	Phone Settings	×
✓ Phone Settings		
Default Ca	all Settings	
Ū	Dial Plan :	C {+x+x+ +x+ +x + }
Ū	Enable Call Features :	Yes v
Ū	Use # as Dial Key :	Yes v
Ū	Auto Answer by Call-	S No ~
	Info:	

Edit Global Template

The added options will show in the list. Users can then enter or select the value for each option to be used in the global template. On the left side of each added option, users can click is to delete this option from the template. On the right side of each option, users can click on is to reset the option value to the default value.

Click on "Save" to save this global template.

- The created global templates will show in the Web GUI→Other Features→Zero Config→Global Templates page. Users can click on to delete the global template or delete multiple selected templates at once.
- Click on "Toggle Selected Template(s)" to toggle the status between enabled/disabled for the selected templates.

Model configuration

Model templates

Model layer configuration allows users to apply model-specific configurations to different devices. Users could create/edit/delete a model template by

accessing Web GUI, page **Other Features** \rightarrow **Zero Config** \rightarrow **Model Templates**. If multiple model templates are created and enabled, when the user configures the device in the Edit Device dialog \rightarrow Advanced Settings, the user can select to use one of the model templates for the device. Please refer to section *[Manage Devices]* for more details on using the model template.

For each created model template, users can assign it as the default model template. If assigned as the default model template, the values in this model template will be applied to all the devices of this model. There is always only one default model template that can be assigned at one time on the UCM630X.

The selected model template and the default model template will both take effect when generating the config file for the device. However, the model template has a higher priority than the default model template when it comes to the same setting option/field. If the same option/field has different value configured in the default model template and the selected model template, the value for this option/field in the selected model template will override the value in default model template.

• Click on "Add" to add a model template.

Model	Select a model to apply this template. The supported Grandstream models are listed in the dropdown list for selection.
Template Name	Create a name for the model template.
Description	Enter a description for the model template. This is optional.
Default Model Template	Select to assign this model template as the default model template. The value of the option in the default model template will be overridden if another selected model template has a different value for the same option.
Active	Check this option to enable the model template.

Table 37: Create New Model Template

 \circ Click on \square to edit the model template.

The editing window for a model template is shown in the following figure. In the "Options" field, enter the option name key word, the option that contains the keyword will be listed. The user could then select the option to be modified under the model template.

Once added, the option will be shown in the list below. On the left side of each option, users can click on 💿 to remove this option from the model template. On the right side of each option, users can click on 💿 to reset the option to the default value.

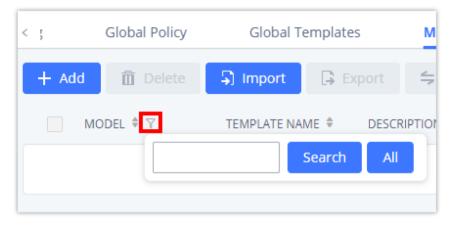
The user could also click on "Add New Field" to add a P-value number and the value to the configuration. The following figure shows setting P-value "P1362" to "en", which means the display language on the LCD is set to English. For P-value information of different models, please refer to the configuration template here http://www.grandstream.com/support/tools

Edit Model Templates: GRP2	613_template		
	* Model:	GRANDSTREAM GRP2613	\sim
	* Template Name:	GRP2613_template	
	Description :		
	Default Model Template:		
	* Template Name: GRP2613_template		
Options:		v	
 Custom Parameters 			
• custom ratameters			
Custom Parameters			
Please enter P-values into the	Name fields. Example: To configure	Language to English, enter "P1362" into the Nan	ne field and "en_US" into the Value field.
m P1362	en	Description	Possible Match Exists
+ Add New	/ Field		

Edit Model Template

- Click on Save when done. The model template will be displayed on Web GUI->Other Features->Zero Config->Model Templates page.
- Click on 🗇 to delete the model template or click on "Delete Selected Templates" to delete multiple selected templates at once.
- Click on "Toggle Selected Template(s)" to toggle the status between enabled/disabled for the selected model templates.
- Click on the "Import/Export" button to upload/export the model template list in .CSV format.

To make it easier for the administrator to search through the templates, a filter button has been added the user interface. Please see the screenshot below:



Filter Model Templates

Model Update

UCM630X Zero Config feature supports provisioning all models of Grandstream SIP end devices including OEM device models.

OEM Models

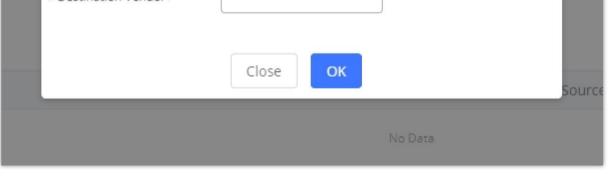
Users can associate OEM device models with their original Grandstream-branded models, allowing these OEM devices to be provisioned appropriately.

• Click on

Add OEM Models button.

- In the Source Model field, select the Grandstream device that the OEM model is based on from the dropdown list.
- For the Destination Model and Destination Vendor field, enter the custom OEM model name and vendor name.
- The newly added OEM model should now be selectable as an option in *Model* fields.

OEM Models			×	
Use to reuse the exis	st model as an other name	<u>,</u>		
* Source Model:		~		
* Destination Model :				
* Destination Vendor'				



OEM Models

To make it easier for the users to search for the model templates to download or update, a filter button has been added to the user interface.

VENDOR	MODEL	VERSION (REMOTE/LOCAL)	SIZE
Grandstream	GXV32	Search All	27К
Grandstream	GXV3275	2.2/2.1	28K
Grandstream	GXV3350	1.2/-	36K
Grandstream	GXV3370	1.7/-	55K
Grandstream	GXV3380	1.4/1.4	71K
Grandstream	GXV3450	1.0/-	94K

Filter Endpoint Models

Model Template Package List

Templates for most of the Grandstream models are built-in with the UCM630X already. Templates for Wave and Grandstream surveillance products require users to download and install under Web GUI \rightarrow Other Features \rightarrow Zero Config \rightarrow Model Update first before they are available in the UCM630X for selection. After downloading and installing the model template to the UCM630X, it will show in the dropdown list for "Model" selection when editing the model template.

- \circ Click on \perp to download the template.
- Click on (1) to upgrade the model template. Users will see this icon available if the device model has a template updated in the UCM630X.

lodel Template Package Li	ist			
VENDOR	MODEL	VERSION (REMOTE / LOCAL)	SIZE	OPTIONS
Grandstream	DP750	1.0/-	271K	<u>ب</u>
Grandstream	DP752	1.2/-	58K	<u>ل</u>
Grandstream	GAC2500	1.0/-	25К	<u></u>
Grandstream	GDS3705	1.3/-	56K	<u></u>
Grandstream	GDS3710	1.3/-	97K	<u>.</u>
Grandstream	GRP2612	1.0/-	495K	<u>ب</u>
Grandstream	GRP2612P	1.0/-	495K	<u>ب</u>
Grandstream	GRP2612W	1.0/-	495K	بلا ا
Grandstream	GRP2613	1.0/-	67K	بل ل
Grandstream	GRP2614	1.3/-	52K	<u>ل</u>
		< <u>1</u> 2 3 4 >		Total: 37 10 / page

Upload Model Template Package

In case the UCM630X is placed in the private network and Internet access is restricted, users will not be able to get packages by downloading and installing

from the remote server. Model template packages can be manually uploaded from a local device through Web GUI. Please contact Grandstream customer

support if the model package is needed for manual uploading.

Upload Model Template Packa	age
Choose Model Package to	Choose File to Upload
Upload :	

Upload Model Template Manually

Device Configuration

On Web GUI, page **Other Features** \rightarrow **Zero Config**, users could create a new device, delete existing device(s), make special configuration for a single device, or send NOTIFY to an existing device(s).

Create New Device

Besides configuring the device after the device is discovered, users could also directly create a new device and configure basic settings before the device is discovered by the UCM630X. Once the device is plugged in, it can then be discovered and provisioned. This gives the system administrator adequate time to set up each device beforehand.

Click on "Add" and the following dialog will show. Follow the steps below to create the configurations for the new device.

- 1. Firstly, select a model for the device to be created and enter its MAC address, IP address, and firmware version (optional) in the corresponding field.
- 2. Basic settings will show a list of settings based on the model selected in step 1. Users could assign extensions to accounts, assign functions to Line Keys and Multiple-Purposed Keys if supported on the selected model.
- 3. Click on "save" to save the configuration for this device.

lit Device: C	074AD112233				Cancel Update S
		* Model:	GRANDSTREAM GXV3350	~	
	1100	* MAC Address:	c074ad112233		
		IP Address:			
		Version:			
Basic Settin	Advance	d Settings			
Accounts					
Accounts					
	Account 1:	+123456789	~		
	Account 2:	+123456789	~		
	Account 3:	+123456789	~		
	Account 4:	+123456789	\checkmark		
		+123456789			

Create New Device

The device manually created or discovered from Auto Discover will be listed in the Web GUI -> Other Features -> Zero Config -> Zero Config page. Users

can see the devices with their MAC address, IP address, vendor, model, etc.

MAC ADDRESS 👙	IP ADDRESS 👙	EXTENSION	VERSION \$	VENDOR \$	MODEL 💠	CREATE CONFIG 👙	OPTIONS
000B82000001	<u>192.168.2.111</u>	1000	unknown	GRANDSTREAM	GXV3275		ビ 🛅 🐽 🖱 🧭
000B8227FB15	<u>192.168.2.108</u>		1.0.3.208	GRANDSTREAM	GXV3275		l 间 🐽 🖱 🧭
000B82A46ACE	<u>192.168.2.106</u>		1.0.0.36	GRANDSTREAM			🗹 🛅 🐽 🖒 Ø
000B82D33AC4	<u>192.168.2.105</u>		20.19.10.30	GRANDSTREAM			Ľ <u> (</u> 🖉
000B82F66470	<u>192.168.2.107</u>	-	10.19.9.26	GRANDSTREAM		-	Ľ <u> </u>

Manage Devices

- Click on *i* to access the Web GUI of the phone.
- \circ Click on \blacksquare to edit the device configuration.

A new dialog will be displayed for the users to configure "Basic" settings and "Advanced" settings. "Basic" settings have the same configurations as displayed when manually creating a new device, i.e., account, line key, and MPK settings; "Advanced" settings allow users to configure more details in a five-level structure.

Edit Device: 000B827	3C559	
	* Model:	GRANDSTREAM GXP2130
	* MAC Address:	000B8273C559
	IP Address :	192.168.5.197
	Version :	Model: GRANDSTREAM GXP2130 MAC Address: 000B8273C559 P Address: 192.168.5.197 dersion: 1.0.9.127
Basic Settings	Advanced Settings	
5 Custom Device Modify Custom Settings 4 Model Templat	i	000B8273C559 192.168.5.197 1.0.9.127
0 item Idle	< 0 ßeiected	
None	 None ✓ 	
3 Default Model	Template	

Edit Device

A preview of the "Advanced" settings is shown in the above figure. There are five levels configurations as described in (1) (2) (3) (4) (5) below, with priority from the lowest to the highest. The configurations in all levels will take effect for the device. If the same options are existing in different level configurations with different values configured, the higher-level configuration will override the lower-level configuration.

This is the lowest level configuration. The global policy configured in Web GUI -> Other Features -> Zero Config -> Global Policy will be applied here.

Clicking on "Modify Global Policy" to redirect to page **Other Features→Zero Config→Global Policy**.

2. Global Templates

Select a global template to be used for the device and click on \searrow to add. Multiple global templates can be selected, and users can arrange the priority by adjusting orders via \land and \checkmark . All the selected global templates will take effect. If the same option exists on multiple selected global templates, the value in the template with higher priority will override the one in the template with lower priority. Click on \checkmark to remove the global template from the selected list.

3. Default Model Template

Default Model Template will be applied to the devices of this model. Default model template can be configured in the model template under Web GUI->Other Features->Zero Config->Model Templates page. Please see the default model template option in *[Table 37: Create New Model Template]*.

4. Model Templates

Select a model template to be used for the device and click on \rightarrow to add. Multiple model templates can be selected, and users can arrange the priority by adjusting orders via \wedge and \checkmark . All the selected model templates will take effect. If the same option exists on multiple selected model templates, the value in the template with higher priority will override the one in the template with lower priority. Click on \checkmark to remove the model template from the selected list.

5. Customize Device Settings

This is the highest-level configuration for the device. Click on "Modify Customize Device Settings" and the following dialog will show.

Edit Device: 000B82A95F94			
	Model:	ldress: 000B82A95F94 ess: 192.168.5.115 : 1.0.9.132	
	MAC Address: 000B82A95F94 IP Address: 192.168.5.115 Version : 1.0.9.132 storm Fields Custom Fields Please use P-values for the Name Fields. Example: To configure Language, enter "P1362" into the Language Value field.		
	Version:	1.0.9.132	
v Custom Fields			
Custom Fields			
Please use P-values for the Name f	fields. Example: To config	ure Language, enter "P1362" into the Language V	alue field.
D1362	en	Description	Possible Match Exists
+ Add New Fiel	d		

Edit Customize Device Settings

Scroll down in the dialog to view and edit the device-specific options. If the users would like to add more options that are not in the pre-defined list, click on "Add New Field" to add a P-value number and the value to the configuration. The above figure shows setting P-value "P1362" to "en", which means the display language on the LCD is set to English. The warning information on the right tells that the option matching the P-value number exists and clicking on it will lead to the matching option. For P-value information of different models, please refer to the configuration template here http://www.grandstream.com/sites/default/files/Resources/config-template.zip.

• Select multiple devices that need to be modified and then click on "Update Config" to batch modify devices.

If selected devices are of the same model, the configuration dialog is like the following figure. Configurations in five levels are all available for users to

modify.

Modify Selecte	ed Devices				[Cancel	2
WARNING: Perfor	ming a batch operation will	l override all the existing device	configurations on this page.				
	1	* Model :	GXV3275				
	HIII	MAC Address :	000682000001 × 0008	88227FB15 ×			
(J							
Basic Settin	gs Advanced Set	ttings					
	<u>.</u>						
Program	mable MPK Settings						
	MPK 1 :	Speed	d Dial				
	MPK 2 :	Speed	l Dial				
	MPK 3 :	Speed	d Dial				
	MPK4:	Speed	i Dial				
	MPK 5:	Speed	1 Dial				
	MPK 6:	Speed	l Dial				

Modify Selected Devices – Same Model

If selected devices are of different models, the configuration dialog is like the following figure. Click on \bigcirc to view more devices of other models. Users are only allowed to make modifications to the Global Templates and Global Policy level.

odify Selected Devices			Cancel
VARNING: Performing a batch operat	ion will override all the existing dev	vice configurations on this page.	
P	* Model :	GXV3275	
iiiiii	MAC Address: 00088227FB15 ×	-	
Basic Settings Advance	ed Settings		
5 Custom Device Settings		Preview	
5 Custom Device Settings Available only for single model		Preview Preview prepared for 000B8227FB15	

Modify Selected Devices – Different Models

After the above configurations, save the changes and go back to Web GUI→Other Features→Zero Config→Zero Config page. Users could then click on to send NOTIFY to the SIP end point device and trigger the provisioning process. The device will start downloading the generated configuration file from the URL contained in the NOTIFY message.

ro Co	onfig Global Po	olicy	Global Terr	nplates Mode	l Templates	Mod	lel Update	Zero (Config Settings						
Auto [Discover Add	Delete	Edit	Update Config		Reset	Upload	Сору							
lter:	All	<													
	MAC ADDRESS 👙	IP ADDRESS	÷	EXTENSION	VEF	RSION \$	VENDOR \$		MODEL 👙	CREATE CONFIG \$				OP	TIONS
	000B82000001	<u>192.168.2.1</u>	111	1000	un	known	GRANDSTREA	M	GXV3275		2	3 1	1	6	ø
	000B8227FB15	<u>192.168.2.1</u>	108		1.0	.3.208	GRANDSTRE	M	GXV3275		E	3 🚺	0	Ů	ø
	000B82A46ACE	<u>192.168.2.1</u>	106		1.0	.0.36	GRANDSTREA	M			ľ	3	1	Ů	ø
	000B82A95F94	<u>192.168.5.1</u>	115		1.0	.9.132	GRANDSTREA	M	GXP2170		ß	6	1	Ů	ø
	000B82D33AC4	<u>192.168.2.1</u>	105		20.	.19.10.30	GRANDSTREA	M			ſ	3 1) @	Ů	ø
	000B82F66470	<u>192.168.2.1</u>	107		10.	.19.9.26	GRANDSTREA	M			ß	ŝ (1	6	ø
					< 1						Total: 6 30) / pa		Goto	

Device List in Zero Config

On this web page, users can also click on "Reset All Extensions" to reset the extensions of all the devices.

Sample Application

Assuming in a small business office where there are 8 GXP2140 phones used by customer support and 1 GXV3275 phone used by customer support supervisor. 3 of the 8 customer support members speak Spanish and the rest speak English. We could deploy the following configurations to provision the office phones for the customer support team.

1. Go to Web GUI→Other Features→Zero Config→Zero Config Settings, select "Enable Zero Config".

2. Go to Web GUI -> Other Features -> Zero Config -> Global Policy, configure Date Format, Time Format, and Firmware Source as follows.

✓ Localization							
Language Set	Language Settings						
	* Language:	ອ	English v	7			
Date and Time							
	Date Format:	อ	yyyy-mm-dd v	7			
2	Time Format:	ъ	12-hour Clock v				
	Enable NTP :	C	Disabled v				
	NTP Server:	C					
	NTP Update Interval:	C	1440				
	Time Zone:	C	GMT+08:00 (Beijing, Taipei, Kuala Lu 🗸				
	Enable Daylight Saving Time:	Ö	Disabled ~				
> Phone Settings							
> Contact List							
 Maintenance 							
Upgrade and	Provision						
	Firmware Source:	Sou	irce:	C	URL v		
		Upg	grade via:	C	TFTP v		
		Sen	ver Path :	ອ	fm.grandstream.com/gs		
		File	Prefix:	C			
		File	Postfix:	ວ			

Zero Config Sample – Global Policy

- 3. Go to Web GUI -> Other Features -> Zero Config -> Model Templates, create a new model template "English Support Template" for GXP2170. Add option "Language" and set it to "English". Then select the option "Default Model Template" to make it the default model template.
- 4. Go to Web GUI -> Other Features -> Zero Config -> Model Templates, create another model template "Spanish Support Template" for GXP2170. Add option "Language" and set it to "Español".
- 5. After 9 devices are powered up and connected to the LAN network, use the "Auto Discover" function or "Create New Device" function to add the devices to the device list on Web GUI \rightarrow Other Features \rightarrow Zero Config \rightarrow Zero Config.
- 6. On Web GUI **→** Other Features **→** Zero Config **→** Zero Config page, users could identify the devices by their MAC addresses or IP addresses displayed on the list. Click on \square to edit the device settings.
- 7. For each of the 5 phones used by English-speaking customer support, in "Basic settings" select an available extension for account 1 and click on "Save". Then click on the "Advanced settings" tab to bring up the following dialog. Users will see the English support template is applied since this is the default model template. A preview of the device settings will be listed on the right side.

Custom Settings	Date Format: Language:	Date Format Language	yyyy-mm-dd English
del Templates	NTP Server: Self-Defined Time Zone: Time Zone:	NTP Server Self-Defined Time Zone Time Zone	MTZ+6MDT+5,M3.2.0,M11.1.0 GMT+08:00 (Beijing, Taipei, Ku
0 item Idle 0 item Selected	Time Format:	Time Format	lrkutsk) 12-hour Clock
†			
None 🔨 None			
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+			

Zero Config Sample – Device Preview 1

8. For the 3 phones used by Spanish support, in "Basic settings" select an available extension for account 1 and click on "Save". Then click on the

"Advanced settings" tab to bring up the following dialog.

istom Device Sett	tings		Preview		
/ Custom Settings			Date Format: Language: NTP Server:	Date Format Language NTP Server	yyyy-mm-dd Español
odel Templates			Self-Defined Time Zone:	Self-Defined Time Zone Time Zone	MTZ+6MDT+5,M3.2.0,M11.1.0 GMT+08:00 (Beijing, Taipei, Kuala
0 item Idl		0 item Selected	Time Format:	Time Format	lrkutsk) 12-hour Clock
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None	~	None			
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Zero Config Sample – Device Preview 2

Select "Spanish Support Template" in "Model Template". The preview of the device settings is displayed on the right side and we can see the language is set to "Español" since Model Template has the higher priority for the option "Language", which overrides the value configured in the default model template.

9. For the GXV3275 used by the customer support supervisor, select an available extension for account 1 on "Basic settings" and click on "Save". Users can see the preview of the device configuration in "Advanced settings". There is no model template configured for GXV3275.

Basic Settings Advanced Settings				
5 Custom Device Settings		Preview		
Modify Custom Settings		Date Format:	Date Format	yyyy-mm-dd



3 Default Model Template

0 item	Idle	0 item Selected
None		<

 Language:
 Language

 NTP Server:
 NTP Server

 Self-Defined Time Zone:
 Self-Defined Time Zone

 Time Zone:
 Time Zone

Time Format: Time Format

English

MTZ+6MDT+5,M3.2.0,M11.1.0 GMT+08:00 (Beijing, Taipei, Kuala Lumpur, Irkutsk) 12-hour Clock

Zero Config Sample – Device Preview 3

10. Click on "Apply Changes" to apply saved changes.

11. On the Web GUI→Other Features→Zero Config→Zero Config page, click on
to send NOTIFY to trigger the device to download the config file
from UCM630X.

Now all the 9 phones in the network will be provisioned with a unique extension registered on the UCM630X. 3 of the phones will be provisioned to display Spanish on LCD and the other 5 will be provisioned to display English on LCD. The GXV3275 used by the supervisor will be provisioned to use the default language on the LCD display since it is not specified in the global policy.

EXTENSIONS

Create New User

Create New SIP Extension

To manually create a new SIP user, go to Web GUI→Extension/Trunk→Extensions. Click on "Add" and a new window will show for users to fill in the extension information.

ic Settings Media	Features	Specific Time	Wave	Follow Me		Cancel
Select Extension Type:	SIP Extension	~				
Select Add Method :	Single	~				
General						
Extension:	1016			CallerID Number:		
* Privilege :	Internal	×		* SIP/IAX Password :	ZusnT%x1	
AuthID:				Voicemail:	Local Voicemail	~
 Voicemail Password : 	310193144			Skip Voicemail Password Verification :		
Send Voicemail Email	Default	~		Attach Voicemail to Email:	Default	÷
Notification :				Keep Voicemail after Emailing :	Default	v
Enable Keep-alive:				* Keep-alive Frequency:		
Disable This Extension :				Enable SCA:		
Emergency CID :				Sync Contact:	2	
User Settings						
First Name :				Last Name:		

Create New Extension

Extension options are divided into five categories:

• Basic Settings

• Media

• Features

• Specific Time

• Wave

• Follow me

Select first which type of extension: SIP Extension, IAX Extension, or FXS Extension. The configuration parameters are as follows.

General

ExtensionThe extension number associated with the user.CallerID NumberConfigure the CallerID Number that would be applied for outbound calls from this user. Note: The ability to manipulate your outbound Caller ID may be limited by your VoIP provider.PrivilegeAssign permission level to the user. The available permissions are "Internal". "Local", "National" and "International" from the lowest level to the highest level. The default setting is "Internal". Note: Users need to have the same level as or higher level than an outbound rule's privilege to make outbound calls using this rule.SIPFIAX PasswordConfigure the password for the user. A random secure password will be automatically generated. It is recommended to use this password for security purposes.Auth IDConfigure the authentication ID for the user. If not configured, the extension number will be used for authentication.
CallerID Number Note: The ability to manipulate your outbound Caller ID may be limited by your VoIP provider. Privilege Assign permission level to the user. The available permissions are "Internal", "Local", "National" and "International" from the lowest level to the highest level. The default setting is "Internal". Note: SIP/LAX Password Configure the password for the user. A random secure password will be automatically generated. It is recommended to use this password for security purposes.
Privilege Ievel to the highest level. The default setting is "Internal". Note: Users need to have the same level as or higher level than an outbound rule's privilege to make outbound calls using this rule. SIP/IAX Password Configure the password for the user. A random secure password will be automatically generated. It is recommended to use this password for security purposes.
SIP/IAX Password for security purposes.
Auth ID Configure the authentication ID for the user. If not configured, the extension number will be used for authentication.
 Configure Voicemail. There are three valid options, and the default option is "Enable Local Voicemail". Disable Voicemail: Disable Voicemail. Enable Local Voicemail: Enable voicemail for the user. Enable Remote Voicemail: Forward the notify message from the remote voicemail system for the user, and the local voicemail will be disabled. Note: Remote voicemail feature is used only for Infomatec (Brazil).
Voicemail Password Configure voicemail password (digits only) for the user to access the voicemail box. A random numeric password is automatically generated. It is recommended to use the randomly generated password for security purposes.
Skip VoicemailPasswordPasswordVerification
Send VoicemailEmail Notification
Attach Voicemail toConfigures whether to attach a voicemail audio file to the voicemail notification emails.EmailNote: When set to "Default", the global settings in Call Features → Voicemail → Voicemail Email Settings will be used.
Keep VoicemailWhether to keep the local voicemail recording after sending them. If set to "Default", the global settings will be used.after EmailingNote: When set to "Default", the global settings in Call Features \rightarrow Voicemail \rightarrow Voicemail Email Settings will be used.
Enable Keep-alive If enabled, an empty SDP packet will be sent to the SIP server periodically to keep the NAT port open. The default setting is "No".
Keep-aliveFrequency
Enable SCA If enabled, (1) Call Forward, Call Waiting, and Do Not Disturb settings will not work, (2) Concurrent Registrations can be set only to 1, and (3) Private numbers can be added in Call Features \rightarrow SCA page.

Emergency CID Name	CallerID name that will be used for emergency calls and callbacks.
Disable This Extension	If selected, this extension will be disabled on the UCM630X. Note: The disabled extension still exists on the PBX but cannot be used on the end device.
Sync Contact	If enabled, this extension number will be displayed in the Wave contact, otherwise, it will not be displayed, and it cannot be found in the chat, but the user can still dial this number.
User Settings	
First Name	Configure the first name of the user. The first name can contain characters, letters, digits, and
Last Name	Configure the last name of the user. The last name can contain characters, letters, digits, and
Email Address	Fill in the Email address for the user. Voicemail will be sent to this Email address.
User Password	Configure the password for user portal access. A random numeric password is automatically generated. It is recommended to use the randomly generated password for security purposes.
Language	Select the voice prompt language to be used for this extension. The default setting is "Default" which is the selected voice prompt language under Web GUI->PBX Settings->Voice Prompt->Language Settings. The dropdown list shows all the currently available voice prompt languages on the UCM630X. To add more languages to the list, please download the voice prompt package by selecting "Check Prompt List" under Web GUI->PBX Settings->Voice Prompt->Language Settings.
Concurrent Registrations	The maximum endpoints which can be registered into this extension. For security concerns, the default value is 1.
Mobile Phone Number	Configure the phone number for the extension, user can type the related star code for the phone number followed by the extension number to directly call this number. For example, the user can type *881000 to call the mobile number associated with extension 1000.
Department	Configure the user's department. The department can be configured in User Management->Address Book Management->Department Management. Job Title: The user's department position.
Contact Privileges	

Same as Department Contact Privileges	When enabled, The extension will inherit the same privilege attributed to the department it belongs to.
Contact View Privileges	Select the privileges regarding the contact view in SIP endpoints and Wave.

SIP Extension Configuration Parameters \rightarrow Basic Settings

SIP Settings

NAT	Use NAT when the UCM630X is on a public IP communicating with devices hidden behind NAT (e.g., broadband router). If there is a one-way audio issue, usually it is related to NAT configuration or the Firewall's support of SIP and RTP ports. The default setting is enabled.
Enable Direct Media	By default, the UCM630X will route the media steams from SIP endpoints through itself. If enabled, the PBX will attempt to negotiate with the endpoints to route the media stream directly. It is not always possible for the UCM630X to negotiate endpoint-to-endpoint media routing. The default setting is "No".
DTMF Mode	Select DTMF mode for the user to send DTMF. The default setting is "RFC4733". If "Info" is selected, the SIP INFO message will be used. If "Inband" is selected, a-law or u-law are required. When "Auto" is selected, RFC4733 will be used if offered, otherwise "Inband" will be used.
TEL URI	If the phone has an assigned PSTN telephone number, this field should be set to "User=Phone". The "User=Phone" parameter will be attached to the Request-Line and "TO" header in the SIP request to indicate the E.164 number. If set to "Enable", "Tel" will be used instead of "SIP" in the SIP request.
Alert-Info	When present in an INVITE request, the alert-Info header field specifies an alternative ring tone to the UAS.
Enable T.38 UDPTL	Enable or disable T.38 UDPTL support.
SRTP	Enable SRTP for the call. The default setting is disabled.
Jitter Buffer	 Select the jitter buffer method. Disable: Jitter buffer will not be used. Fixed: Jitter buffer with a fixed size (equal to the value of "jitter buffer size") Adaptive: Jitter buffer with an adaptive size (no more than the value of "max jitter buffer"). NetEQ: Dynamic jitter buffer via NetEQ.
Packet Loss Retransmission	Configure to enable Packet Loss Retransmission. • NACK • NACK+RTX(SSRC-GROUP) • OFF
Video FEC	Check to enable Forward Error Correction (FEC) for Video.
Audio FEC	Check to enable Forward Error Correction (FEC) for Audio.
Silence Suppression	If enabled, the UCM will send CN packets for silence suppression after a successful CN negotiation in the SIP SDP. If the client endpoint's OPUS codec supports the reception of DTX packets, the UCM will send DTX packets instead.
FECC	Configure to enable Remote Camera Management.
ACL Policy	 Access Control List manages the IP addresses that can register to this extension. Allow All: Any IP address can register to this extension.

	• Local Network: Only IP addresses in the configured network segments can register to this extension. Press "Add Local Network Address" to add more IP segments.
SRTP Crypto Suite	 The following encryption protocols can be used to encrypt an RTP stream. AES_CM_128_HMAC_SHA1_80 (This is the default used protocol) AES_256_CM_HMAC_SHA1_80 AEAD_AES_128_GCM AEAD_AES_256_GCM
Codec Preference	Select audio and video codec for the extension. The available codecs are: PCMU, PCMA, GSM, AAL2-G.726-32, G,726, G.722, G.729, G.723, iLBC, ADPCM, H.264, H.263, H.263p, RTX and VP8.

SIP Extension Configuration Parameters \rightarrow Media

Call Transfer	
Presence Status	Select which presence status to set for the extension and configure call forward conditions for each status. Six possible options are possible: "Available", "Away", "Chat", "Custom", "DND" and "Unavailable". More details at [PRESENCE].
Internal Calls & Ext	ernal Calls
Call Forward Unconditional	 Enable and configure the Call Forward Unconditional target number. Available options for target number are: "None": Call forward deactivated. "Extension": Select an extension from the dropdown list as CFU target. "Custom Number": Enter a customer number as a target. For example: *97. "Voicemail": Select an extension from the dropdown list. Incoming calls will be forwarded to the voicemail of the selected extension. "Ring Group": Select a ring group from the dropdown list as CFU target. "Queues": Select a queue from the dropdown list as CFU target. "Voicemail Group": Select a voicemail group from the dropdown list as CFU target. Custom Prompt: The call will be forwarded to a custom prompt. The default setting is "None".
	Select time condition for Call Forward Unconditional. CFU takes effect only during the selected time condition. The available time conditions are 'All', 'Office Time', 'Out of Office Time', 'Holiday', 'Out of Holiday', 'Out of Office Time or Holiday', 'Office Time and Out of Holiday', 'Specific Time', 'Out of Specific Time', 'Out of Specific Time or Holiday', 'Specific Time and Out of Holiday'.

CFU Time Condition	Notes:
	• "Specific" has higher priority to "Office Times" if there is a conflict in terms of time period.
	• Specific time can be configured under the Specific Time section. Scroll down the add Time Condition for a specific time.
	● Office Time and Holiday could be configured on page System Settings→Time Settings→Office Time/Holiday page.
Call Forward No	Configure the Call Forward No Answer target number. Available options for target number are:
Answer	• "None": Call forward deactivated.
	• "Extension": Select an extension from the dropdown list as CFN target.
	• "Custom Number": Enter a customer number as a target. For example: *97.

	 "Voicemail": Select an extension from the dropdown list. Incoming calls will be forwarded to the voicemail of the selected extension. "Ring Group": Select a ring group from the dropdown list as CFN target. "Queues": Select a queue from the dropdown list as CFN target. "Voicemail Group": Select a voicemail group from the dropdown list as CFN target. Custom Prompt: The call will be forwarded to a custom prompt.
CFN Time Condition	 Select time condition for Call Forward No Answer. The available time conditions are 'All', 'Office Time', 'Out of Office Time', 'Holiday', 'Out of Holiday', 'Out of Office Time or Holiday', 'Office Time and Out of Holiday', 'Specific Time', 'Out of Specific Time or Holiday', 'Specific Time and Out of Holiday'. Notes: "Specific" has higher priority to "Office Times" if there is a conflict in terms of time period. Specific time can be configured under the Specific Time section. Scroll down the add Time Condition for a specific time. Office Time and Holiday could be configured on page System Settings→Time Settings→Office Time/Holiday page.
Call Forward Busy	 Configure the Call Forward Busy target number. Available options for target number are: "None": Call forward deactivated. "Extension": Select an extension from the dropdown list as CFB target. "Custom Number": Enter a customer number as a target. For example: *97 "Voicemail": Select an extension from the dropdown list. Incoming calls will be forwarded to the voicemail of the selected extension. "Ring Group": Select a ring group from the dropdown list as CFB target. "Queues": Select a queue from the dropdown list as CFB target. "Voicemail Group": Select a voicemail group from dropdown list as CFB target. Custom Prompt: The default setting is "None".
CFB Time Condition	 Select time condition for Call Forward Busy. The available time conditions 'All', 'Office Time', 'Out of Office Time', 'Holiday', 'Out of Holiday', 'Out of Office Time or Holiday', 'Office Time and Out of Holiday', 'Specific Time', 'Out of Specific Time', 'Out of Specific Time or Holiday', 'Specific Time and Out of Holiday'. Notes: "Specific" has higher priority to "Office Times" if there is a conflict in terms of time period. Specific time can be configured under the Specific Time section. Scroll down the add Time Condition for a specific time. Office Time and Holiday could be configured on page System Settings→Time Settings→Office Time/Holiday page.

Do Not Disturb	If Do Not Disturb is enabled, all incoming calls will be dropped. All call forward settings will be ignored.
DND Time Condition	 Select time condition for Do Not Disturb. The available time conditions are "Office Time", "Out of Office Time", "Holiday", "Out of Holiday", "Out of Office Time or Holiday", and "Specific". Notes: "Specific" has higher priority to "Office Times" if there is a conflict in terms of time period. Specific time can be configured under the Specific Time section. Scroll down the add Time Condition for a specific time. Office Time and Holiday could be configured on page System Settings→Time Settings→Office Time/Holiday page.

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FYD Whitesin 	DND Whitelist	 new lines. Pattern matching is supported. Z match any digit from 1-9. N match any digit from 2-9.
Fanale CC If evabled, UCM630X will automatically alert this extension when a called party is available, given that a previous call to that party failed for some reason. By default, it is disabled. Cr Mode Two modes for Call Completion are supported: · Normal: This extension is used as an ordinary extension. · Normal: This extension is used as an ordinary extension. Cr Mode Configure the maximum number of CCS agents which may be allocated for this channel. In other words, this number serves as the maximum number of CC requests this channel can make. Cr Max Agents Configure the maximum number of CCS agents which may be created for this device. In other words, this number serves as the maximum number of CC requests this channel can make. Ref Stantacococococococococococococococococococo	FWD Whitelist	 Z match any digit from 1-9. N match any digit from 2-9.
Enable CC nilled for some reason. By default, it is disabled. fcc Mode Two modes for Call Completion are supported: •Normal: This extension is used as an ordinary extension. •For Trunk: This extension is registered from a PBX. The default setting is "Normal". •For Trunk: This extension is registered from a PBX. The default setting is "Normal". •Configure the maximum number of CCSS agents which may be allocated for this channel. In other words, this number serves as the maximum number of CC requests this channel can make. fcc Max Agents Configure the maximum number of monitor structures that may be created for this device. In other words, this number tells how many callers may request CC services for a specific device at one time. fcr Max Monitors Configure the maximum number of monitor structures that may be created for this device. In other words, this number tells how many callers may request CC services for a specific device at one time. ftre simultaneousy For the register number will be used to be displayed for the external number ing simultaneously along with the extension. If a register runk is used for outbound, the register number will be used to be displayed for the external number as the caller ID number. ftre condition for Rest the external number ing annultaneously. ^{1,1} is the connection character that will be ignored. ftre condition for Ring the external number is multaneously along with the extension based on this time condition. ftre condetiton for Ring the external nu	CC Settings	
CC Mode•• Normal: This extension is registered from a PBX. The default setting is "Normal".CC Max AgentsConfigure the maximum number of CCSS agents which may be allocated for this channel. In other words, this number serves as the maximum number of CC requests this channel can make. The minimum value is 1.CC Max AgentsConfigure the maximum number of monitor structures that may be created for this device. In other words, this number serves as the many callers may request CC services for a specific device at one time. The minimum value is 1.Ring SimultaneoustyInable this option to have an external number ring simultaneously along with the extension. If a register trunk is used for outbound, the register number will be used to be displayed for the external number as the caller ID number.Ring SimultaneoustySet the external number to ring simultaneously. '.' is the connection character that will be ignored. This field accepts only letters, numbers, and special characters + = * +.Time Condition for Wing RissIn gue external number to along along with the external outboard on this time condition.Wing RissUse the DOD number when calls are being diverted/forwarded to external destinations or when ring simultaneous is configured.	Enable CC	
CC Max Agentsmaximum number of CC requests this channel can make. The minimum value is 1.CC Max MonitorsConfigure the maximum number of monitor structures that may be created for this device. In other words, this number tells how many callers may request CC services for a specific device at one time. The minimum value is 1.King SimultaneouslyEnable this option to have an external number ring simultaneously along with the extension. If a register trunk is used for outbound, the register number will be used to be displayed for the external number.Ring SimultaneouslySet the external number to ring simultaneously. '.' is the connection character that will be ignored. This field accepts only letters, numbers, and special characters + = * #.Time Condition for Ring SimultaneouslyRing the external number simultaneously along with the extension this time condition.Use callee DOD on PWD or RSUse the DOD number when calls are being diverted/forwarded to external destinations or when ring simultaneous is configured.	CC Mode	 Normal: This extension is used as an ordinary extension. For Trunk: This extension is registered from a PBX.
CC Max Monitorsmany callers may request CC services for a specific device at one time. The minimum value is 1.Ring SimultaneouslyEnable this option to have an external number ring simultaneously along with the extension. If a register trunk is used for outbound, the register number will be used to be displayed for the external number as the caller ID number.External NumberSet the external number to ring simultaneously. '-' is the connection character that will be ignored. This field accepts only letters, numbers, and special characters + = * #.Use caller DOD on FWD or RSUse the DOD number when calls are being diverted/forwarded to external destinations or when ring simultaneous is configured.	CC Max Agents	maximum number of CC requests this channel can make.
Ring Simultaneously Enable this option to have an external number ring simultaneously along with the extension. If a register trunk is used for outbound, the register number will be used to be displayed for the external number as the caller ID number. External Number Set the external number to ring simultaneously. '-' is the connection character that will be ignored. This field accepts only letters, numbers, and special characters + = * #. Time Condition for Ring Simultaneously Ring the external number simultaneously along with the extension based on this time condition. Use callee DOD on FWD or RS Use the DOD number when calls are being diverted/forwarded to external destinations or when ring simultaneous is configured.	CC Max Monitors	many callers may request CC services for a specific device at one time.
Ring Simultaneously The register number will be used to be displayed for the external number as the caller ID number. External Number Set the external number to ring simultaneously. '-' is the connection character that will be ignored. This field accepts only letters, numbers, and special characters + = * #. Time Condition for Ring Simultaneously Ring the external number simultaneously along with the extension based on this time condition. Use callee DOD on FWD or RS Use the DOD number when calls are being diverted/forwarded to external destinations or when ring simultaneous is configured.	Ring Simultaneously	
External Number This field accepts only letters, numbers, and special characters + = * #. Time Condition for Ring Simultaneously Ring the external number simultaneously along with the extension based on this time condition. Use callee DOD on FWD or RS Use the DOD number when calls are being diverted/forwarded to external destinations or when ring simultaneous is configured.	Ring Simultaneously	
Ring Simultaneously Ring the external number simultaneously along with the extension based on this time condition. Use callee DOD on Wise the DOD number when calls are being diverted/forwarded to external destinations or when ring simultaneous is configured.	External Number	
FWD or RS Use the DOD number when calls are being diverted/forwarded to external destinations or when ring simultaneous is configured.		Ring the external number simultaneously along with the extension based on this time condition.
Monitor privilege control		Use the DOD number when calls are being diverted/forwarded to external destinations or when ring simultaneous is configured.
	Monitor privilege control	

Call Montoring Whitelist	Add members from "Available Extensions" to "Selected Extensions" so that the selected extensions can spy on the used extension using feature code.	
Allow Operator Panel Monitoring	Configure whether this extension can be monitored by the Operator Panel administrator.	
Seamless transfer privile	ge control	
Allowed to seamless transfer	Any extensions on the UCM can perform a seamless transfer. When using the Pickup Incall feature, only extensions available on the "Selected Extensions" list can perform a seamless transfer to the edited extension.	
PMS Remote Wakeup W	Thitelist	
Select the extensions that can set wakeup service for other extensions	Selected extensions can set a PMS wakeup service for this extension via feature code.	
Other Settings		
Ring Timeout	Configure the number of seconds to ring the user before the call is forwarded to voicemail (voicemail is enabled) or hang up (voicemail is disabled). If not specified, the default ring timeout is 60 seconds on the UCM630X. The valid range is between 5 seconds and 600 seconds. Note: If the end point also has a ring timeout configured, the actual ring timeout used is the shortest time set by either device.	
Auto Record	Enable automatic recording for the calls using this extension. The default setting is disabled. The recordings can be accessed under Web GUI \rightarrow CDR \rightarrow Recording Files .	
Skip Trunk Auth	 If set to "yes", users can skip entering the password when making outbound calls. If set to "By Time", users can skip entering the password when making outbound calls during the selected time condition. If set to "No", users will be asked to enter the password when making outbound calls. 	
Time Condition for Skip Trunk Auth	If 'Skip Trunk Auth' is set to 'By Time', select a time condition during which users can skip entering the password when making outbound calls.	
Dial Trunk Password	Configure personal password when making outbound calls via the trunk.	

Support Hot-Desking Mode	Check to enable Hot-Desking Mode on the extension. Hot-Desking allows using the same endpoint device and logs in using extension/password combination. This feature is used in scenarios where different users need to use the same endpoint device during a different time of the day for instance. If enabled, SIP Password will accept only alphabet characters and digits. Auth ID will be changed to the same as Extension.
Enable LDAP	If enabled, the extension will be added to the LDAP Phonebook PBX list. Default is enabled.
Use MOH as IVR ringback tone	If enabled, when the call to the extension is made through the IVR, the caller will hear MOH as a ringback tone instead of the regular ringback tone.

Music On Hold	Specify which Music On Hold class to suggest to the bridged channel when putting them on hold.
Call Duration Limit	Check to enable and set the call limit the duration.
Maximum Call Duration (s)	The maximum call duration (in seconds). The default value 0 means no limit. Max value is 86400 seconds
The Maximum Number of Call Lines	The maximum number of simultaneous calls that the extension can have. 0 indicates no limit.
Outgoing Call Frequency Limit	If enabled, if the number of outbound calls exceed the configured threshold within the specified period, further outbound calls will be not be allowed.
Send PCPID Header	If enabled, this extension's SIP INVITE messages will contain the P-Called-Party-ID (PCPID) header if the callee is a SIP device.
Period (m)	The period of outgoing call frequency limit. The valid range is from 1 to 120. The default value is 1.
Max Number of Calls	Set the maximum number of outgoing calls in a period. The valide tange is from 1 to 20. The default value is 5.
Enable Auto-Answer Support	If enabled, the extension will support auto-answer when indicated by Call-info/Alert-info headers.
Call Waiting	Allows calls to the extension even when it is already in a call. This only works if the caller is directly dialing the extension. If disabled, the CC service will take effect only for unanswered and timeout calls.
Stop Ringing	If enabled, when the extension has concurrent registrations on multiple devices, upon incoming call or meeting invite ringing, if one end device rejects the call, the rest of the devices will also stop ringing. By default, it's disabled.
Email Missed Call Log	If enabled, the log of missed calls will be sent to the extension's configured email address.
Missed Call Type	 If Email Missed Calls enabled, users can select the type of missed calls to be sent via email, the available types are: Default: All missed calls will be sent in email notifications. Missed Internal Call: Only missed local extension-to-extension calls will be sent in email notifications. Missed External Call: Only missed calls from trunks will be sent in email notifications.

Specific Time	
Time Condition	Click to add Time Condition to configure a specific time for this extension.

Table 41: SIP Extension Configuration Parameters \rightarrow Specific Time

Normal

Enable Wave	Enable Wave for the specific extension.
Wave Welcome Email	Wave Welcome Email template.
Wave	
Download Link	https://fw.gdms.cloud/wave/download/

SIP Extension Configuration Parameters \rightarrow Wave

9 Important Note

Please note that the access to the QR code using the UCM6300 web UI using the admin account has been removed for security and confidentiality reasons.

Follow Me	llow Me	
Enable	Configure to enable or disable Follow Me for this user.	
Skip Trunk Auth	If the outbound calls need to check the password, we should enable this option or enable the option "Skip Trunk Auth" of the Extension. Otherwise, this Follow Me cannot call out.	
Music On Hold Class	Configure the Music On Hold class that the caller would hear while tracking the user.	
Confirm When Answering	If enabled, call will need to be confirmed after answering.	
Enable Destination	Configure to enable destination.	
Default Destination	The call will be routed to this destination if no one in the Follow Me answers the call.	
Use Callee DOD for Follow Me	Use the callee DOD number as CID if configured Follow Me numbers are external numbers.	
Play Follow Me Prompt	If enabled, the Follow Me prompt tone will be played.	
New Follow Me Number	Add a new Follow Me number which could be a "Local Extension" or an "External Number". The selected dial plan should have permissions to dial the defined external number.	

Create New IAX Extension

The UCM630X supports Inter-Asterisk eXchange (IAX) protocol. IAX is used for transporting VoIP telephony sessions between servers and terminal devices.

IAX is like SIP but also has its own characteristic. For more information, please refer to RFC 5465.

To manually create a new IAX user, go to Web GUI \rightarrow Extension/Trunk \rightarrow Extensions. Click on "Add" and a new dialog window will show for users which need to make sure first to select the extension type to be IAX Extension before proceeding to fill in the extension information. The configuration parameters are as follows.

General	
Extension	The extension number associated with the user.
CallerID Number	Configure the CallerID Number that would be applied for outbound calls from this user. Note: The ability to manipulate your outbound Caller ID may be limited by your VoIP provider.
Privilege	Assign permission level to the user. The available permissions are "Internal", "Local", "National" and "International" from the lowest level to the highest level. The default setting is "Internal". Note: Users need to have the same level as or higher level than an outbound rule's privilege to make outbound calls using this rule.
SIP/IAX Password	Configure the password for the user. A random secure password will be automatically generated. It is recommended to use this password for security purposes.
Voicemail	 Configure Voicemail. There are three valid options, and the default option is "Enable Local Voicemail". Disable Voicemail: Disable Voicemail. Enable Local Voicemail: Enable voicemail for the user.
Voicemail Password	Configure voicemail password (digits only) for the user to access the voicemail box. A random numeric password is automatically generated. It is recommended to use the randomly generated password for security purposes.
Skip Voicemail Password Verification	When a user dials voicemail code, the password verification IVR is skipped. If enabled, this would allow one-button voicemail access. By default, this option is disabled.
Send Voicemail Email Notification	Configures whether to send emails to the extension's email address to notify of a new voicemail.
Attach Voicemail to Email	Configures whether to attach a voicemail audio file to the voicemail notification emails.
Keep Voicemail after Emailing	Only applies if extension-level or global Send Voicemail to Email is enabled.
Disable This Extension	If selected, this extension will be disabled on the UCM630X. Note: The disabled extension still exists on the PBX but cannot be used on the end device.
User Settings	
First Name	Configure the first name of the user. The first name can contain characters, letters, digits, and
Last Name	Configure the last name of the user. The last name can contain characters, letters, digits, and

Email Address	Fill in the Email address for the user. Voicemail will be sent to this Email address.
User Password	Configure the password for user portal access. A random numeric password is automatically generated. It is recommended to use the randomly generated password for security purposes.
Language	Select the voice prompt language to be used for this extension. The default setting is "Default" which is the selected voice prompt language under Web GUI → PBX Settings → Voice Prompt → Language Settings . The dropdown list shows all the currently available voice prompt languages on the UCM630X. To add more languages to the list, please download the voice prompt package by selecting "Check Prompt List" under Web GUI → PBX Settings → Voice Prompt → Language Settings .
Mobile Phone Number	Configure the Mobile number of the user.

IAX Settings	ettings	
Max Number of Calls	Configure the maximum number of calls allowed for each remote IP address.	
Require Call Token	Configure to enable/disable requiring call token. If set to "Auto", it might lock out users who depend on backward compatibility when peer authentication credentials are shared between physical endpoints. The default setting is "Yes".	
SRTP	Enable SRTP for the call. The default setting is disabled.	
ACL Policy	 Access Control List manages the IP addresses that can register to this extension. Allow All: Any IP address can register to this extension. Local Network: Only IP addresses in the configured network segments can register to this extension. 	
Codec Preference	Select audio and video codec for the extension. The available codecs are: PCMU, PCMA, GSM, AAL2-G.726-32, G,726, G.722, G.729, G.723, iLBC, ADPCM, H.264, H.263, H.263p, RTX and VP8.	

Call Transfer	Fransfer	
Call Forward Unconditional	Configure the Call Forward Unconditional target number. If not configured, the Call Forward Unconditional feature is deactivated. The default setting is deactivated.	
	Select time condition for Call Forward Unconditional. CFU takes effect only during the selected time condition. The	

available time conditions are "Office Time", "Out of Office Time", "Holiday", "Out of Holiday", "Out of Office Time or

	Holiday", and "Specific". Note:
CFU Time Condition	 • "Specific" has higher priority to "Office Times" if there is a conflict in terms of time period. • Specific time can be configured on the bottom of the extension configuration dialog. Scroll down the add Time Condition for a specific time. • Office Time and Holiday could be configured on page System Settings→Time Settings→Office Time/Holiday page.
Call Forward No Answer	Configure the Call Forward No Answer target number. If not configured, the Call Forward No Answer feature is deactivated. The default setting is deactivated.

CFN Time Condition	 Select time condition for Call Forward No Answer. The available time conditions are "Office Time", "Out of Office Time", "Holiday", "Out of Holiday", "Out of Office Time or Holiday", and "Specific". Notes: Specific" has higher priority to "Office Times" if there is a conflict in terms of time period. Specific time can be configured on the bottom of the extension configuration dialog. Scroll down the add Time Condition for a specific time. Office Time and Holiday could be configured on page System Settings→Time Settings→Office Time/Holiday page.
Call Forward Busy	Configure the Call Forward Busy target number. If not configured, the Call Forward Busy feature is deactivated. The default setting is deactivated.
CFB Time Condition	 Select time condition for Call Forward Busy. The available time conditions are "Office Time", "Out of Office Time", "Holiday", "Out of Holiday", "Out of Office Time or Holiday", and "Specific". Notes: "Specific" has higher priority to "Office Times" if there is a conflict in terms of time period. Specific time can be configured on the bottom of the extension configuration dialog. Scroll down the add Time Condition for a specific time. Office Time and Holiday could be configured on page System Settings→Time Settings→Office Time/Holiday page.
Do Not Disturb	If Do Not Disturb is enabled, all incoming calls will be dropped. All call forward settings will be ignored.
DND Time Condition	The time condition of DND. The DND will take effect while the time condition is satisfied.
DND Whitelist	 If DND is enabled, calls from the whitelisted numbers will not be rejected. Multiple numbers are supported and must be separated by new lines. Pattern matching is supported. Z match any digit from 1-9. N match any digit from 2-9. X match any digit from 0-9.
FWD Whitelist	 Calls from users in the forward whitelist will not be forwarded. Pattern matching is supported. Z match any digit from 1-9. N match any digit from 2-9. X match any digit from 0-9.
Ring Simultaneously	
Ring Simultaneously	Enable this option to have an external number ring simultaneously along with the extension. If a register trunk is used for outbound, the register number will be used to be displayed for the external number as the caller ID number.
External Number	Set the external number to ring simultaneously. '-' is the connection character that will be ignored.
Time Condition for Ring	Ring the external number simultaneously along with the extension based on this time condition.

Simultaneously		
Use callee DOD on FWD or RS	Use the callee's DOD number as CallerID on Outgoing Forwarding or Ring Simultaneously calls.	
Monitor Privilege Control	Monitor Privilege Control	
Call Monitoring Whitelist	Members of the list can spy on this extension via feature codes.	
Seamless transfer privilege control		
Allowed to seamless transfer	Members of the list can seamlessly transfer via feature code.	
Other Settings		
Ring Timeout	Configure the number of seconds to ring the user before the call is forwarded to voicemail (voicemail is enabled) or hang up (voicemail is disabled). If not specified, the default ring timeout is 60 seconds on the UCM630X, which can be configured in the global ring timeout setting under Web GUI→PBX Settings→Voice Prompt→Custom Prompt: General Preference. The valid range is between 5 seconds and 600 seconds. Note: If the endpoint also has a ring timeout configured, the actual ring timeout used is the shortest time set by either device.	
Auto Record	Enable automatic recording for the calls using this extension. The default setting is disabled. The recording files can be accessed under Web GUI \rightarrow CDR \rightarrow Recording Files.	
Skip Trunk Auth	 If set to "Yes", users can skip entering the password when making outbound calls. If set to "By Time", users can skip entering the password when making outbound calls during the selected time condition. If set to "No", users will be asked to enter the password when making outbound calls. 	
Time Condition for Skip Trunk Auth	If "Skip Trunk Auth" is set to "By Time", select a time condition during which users can skip entering the password when making outbound calls.	
Dial Trunk Password	Configure personal password when making outbound calls via the trunk.	
Enable LDAP	If enabled, the extension will be added to LDAP Phonebook PBX lists.	
Music On Hold	Configure the Music On Hold class to suggest to the bridged channel when putting them on hold.	
Use MOH as IVR ringback tone	If enabled, when the call to the extension is made through the IVR, the caller will hear MOH as a ringback tone instead of the regular ringback tone.	
Call Duration Limit	Check to enable and set the call limit the duration.	
Maximum Call Duration (s)	The maximum call duration (in seconds). The default value 0 means no limit. Max value is 86400 seconds	
Email Missed Calls	Send a log of missed calls to the extension's email address.	

	If Email Missed Calls enabled, users can select the type of missed calls to be sent via email, the available types are:
Missed Call Type	 Default: All missed calls will be sent in email notifications. Missed Internal Call: Only missed local extension-to-extension calls will be sent in email notifications. Missed External Call: Only missed calls from trunks will be sent in email notifications.

Table 46: IAX Extension Configuration Parameters→Specific Time

Specific Time	
Time Condition	Click to add Time Condition to configure a specific time for this extension.

Follow Me	
Enable	Configure to enable or disable Follow Me for this user.
Skip Trunk Auth	If the outbound calls need to check the password, we should enable this option or enable the option "Skip Trunk Auth" of the Extension. Otherwise, this Follow Me cannot call out.
Music On Hold Class	Configure the Music On Hold class that the caller would hear while tracking the user.
Confirm When Answering	If enabled, call will need to be confirmed after answering.
Enable Destination	Configure to enable destination.
Default Destination	The call will be routed to this destination if no one in the Follow Me answers the call.
Use Callee DOD for Follow Me	Use the callee DOD number as CID if configured Follow Me numbers are external numbers.
Play Follow Me Prompt	If enabled, the Follow Me prompt tone will be played.
New Follow Me Number	Add a new Follow Me number which could be a "Local Extension" or an "External Number". The selected dial plan should have permissions to dial the defined external number.
Dialing Order	This is the order in which the Follow Me destinations will be dialed to reach the user.

Create New FXS Extension

The UCM630X supports Foreign eXchange Subscriber (FXS) interface. FXS is used when a user needs to connect analog phone lines or FAX machines to the UCM630X.

To manually create a new FXS user, go to Web $GUI \rightarrow Extension/Trunk \rightarrow Extensions$. Click on "Add" and a new dialog window will show for users which need to make sure first to select the extension type to be FXS Extension before proceeding to fill in the extension information. The configuration parameters are as follows.

General	
Extension	The extension number associated with the user.
Analog Station	Select the FXS port to be assigned for this extension.
Caller ID Number	Configure the CallerID Number that would be applied for outbound calls from this user. Note: The ability to manipulate your outbound Caller ID may be limited by your VoIP provider.
Privilege	Assign permission level to the user. The available permissions are "Internal", "Local", "National" and "International" from the lowest level to the highest level. The default setting is "Internal". Note: Users need to have the same level as or higher level than an outbound rule's privilege to make outbound calls using this rule.
Voicemail	 Configure Voicemail. There are three valid options, and the default option is "Enable Local Voicemail". Disable Voicemail: Disable Voicemail. Enable Local Voicemail: Enable voicemail for the user.
Voicemail Password	Configure voicemail password (digits only) for the user to access the voicemail box. A random numeric password is automatically generated. It is recommended to use the randomly generated password for security purposes.
Skip Voicemail Password Verification	When a user dials voicemail code, the password verification IVR is skipped. If enabled, this would allow one-button voicemail access. By default, this option is disabled.
Send Voicemail Email Notification	Configures whether to send emails to the extension's email address to notify of a new voicemail.
Attach Voicemail to Email	Configures whether to attach a voicemail audio file to the voicemail notification emails.
Keep Voicemail after Emailing	Only applies if extension-level or global Send Voicemail to Email is enabled.
Emergency CID Name	CallerID name that will be used for emergency calls and callbacks.

Disable This Extension	If selected, this extension will be disabled on the UCM630X. Note: The disabled extension still exists on the PBX but cannot be used on the end device.
User Settings	
First Name	Configure the first name of the user. The first name can contain characters, letters, digits, and
Last Name	Configure the last name of the user. The last name can contain characters, letters, digits, and
Email Address	Fill in the Email address for the user. Voicemail will be sent to this Email address.
User Password	Configure the password for user portal access. A random numeric password is automatically generated. It is recommended to use the randomly generated password for security purposes.
Mobile Phone Number	Configure the Mobile number of the user.
Language	Select the voice prompt language to be used for this extension. The default setting is "Default" which is the selected voice prompt language under Web GUI→PBX Settings→Voice Prompt→Language Settings. The dropdown list shows all the currently available voice prompt languages on the UCM630X. To add more languages to the list, please download the voice prompt package by selecting "Check Prompt List" under Web GUI→PBX Settings→Voice Prompt→Language Settings.

Analog Settings	
Call Waiting	Configure to enable/disable call waiting feature. The default setting is "No".
User '#' as SEND	If configured, the # key can be used as SNED key after dialing the number on the analog phone. The default setting is "Yes".

RX Gain	Configure the RX gain for the receiving channel of the analog FXS port. The valid range is -30dB to +6dB. The default setting is 0.
TX Gain	Configure the TX gain for the transmitting channel of the analog FXS port. The valid range is -30dB to +6dB. The default setting is 0.
Min RX Flash	Configure the minimum period of time (in milliseconds) that the hook flash must remain unpressed for the PBX to consider the event as a valid flash event. The valid range is 30ms to 1000ms. The default setting is 200ms.
Max RX Flash	Configure the maximum period of time (in milliseconds) that the hook flash must remain unpressed for the PBX to consider the event as a valid flash event. The minimum period of time is 256ms and it cannot be modified. The default setting is 1250ms.

Enable Polarity Reversal	If enabled, a polarity reversal will be marked as received when an outgoing call is answered by the remote party. For some countries, a polarity reversal is used for signaling the disconnection of a phone line and the call will be considered as Hangup on a polarity reversal. The default setting is "Yes".
Echo Cancellation	Specify "ON", "OFF" or a value (the power of 2) from 32 to 1024 as the number of taps of cancellation. Note: When configuring the number of taps, the number 256 is not translated into 256ms of echo cancellation. Instead, 256 taps mean $256/8 = 32$ ms. The default setting is "ON", which is 128 taps.
3-Way Calling	Configure to enable/disable the 3-way calling feature on the user. The default setting is enabled.
Send CallerID After	Configure the number of rings before sending CID. The default setting is 1.
Fax Mode	 For the FXS extension, there are three options available in Fax Mode. The default setting is "None". None: Disable Fax. Fax Gateway: If selected, the UCM630X can support the conversation and processing of Fax data from T.30 to T.38 or T.38 to T.30. only for FXS ports. Fax Detection: During a call, the fax signal from the user/trunk will be detected, and the received fax will be sent to the email address configured for the user. If an email address has been configured for the user, the fax will be sent to the Default Email Address configured in Fax/T.38->Fax Settings.

Call Transfer	
Call Forward Unconditional	Configure the Call Forward Unconditional target number. If not configured, the Call Forward Unconditional feature is deactivated. The default setting is deactivated.
CFU Time Condition	 Select time condition for Call Forward Unconditional. CFU takes effect only during the selected time condition. The available time conditions are "Office Time", "Out of Office Time", "Holiday", "Out of Holiday", "Out of Office Time or Holiday", and "Specific". Note: * "Specific" has higher priority to "Office Times" if there is a conflict in terms of time period. Specific time can be configured on the bottom of the extension configuration dialog. Scroll down the add Time Condition for a specific time. Office Time and Holiday could be configured on page System Settings→Time Settings→Office Time/Holiday page.
Call Forward No Answer	Configure the Call Forward No Answer target number. If not configured, the Call Forward No Answer feature is deactivated. The default setting is deactivated.
CFN Time Condition	 Select time condition for Call Forward No Answer. The available time conditions are "Office Time", "Out of Office Time", "Holiday", "Out of Holiday", "Out of Office Time or Holiday", and "Specific". Notes: Specific" has higher priority to "Office Times" if there is a conflict in terms of time period. Specific time can be configured on the bottom of the extension configuration dialog. Scroll down the add Time Condition for a specific time. Office Time and Holiday could be configured on page System Settings→Time Settings→Office Time/Holiday page.

Call Forward Busy	Configure the Call Forward Busy target number. If not configured, the Call Forward Busy feature is deactivated. The default setting is deactivated.
CFB Time Condition	 Select time condition for Call Forward Busy. The available time conditions are "Office Time", "Out of Office Time", "Holiday", "Out of Holiday", "Out of Office Time or Holiday", and "Specific". Notes: • "Specific" has higher priority to "Office Times" if there is a conflict in terms of time period. • Specific time can be configured on the bottom of the extension configuration dialog. Scroll down the add Time Condition for a specific time. • Office Time and Holiday could be configured on page System Settings→Time Settings→Office Time/Holiday page.
Do Not Disturb	If Do Not Disturb is enabled, all incoming calls will be dropped. All call forward settings will be ignored.
DND Time Condition	The time condition of DND. The DND will take effect while the time condition is satisfied.
DND Whitelist	 If DND is enabled, calls from the whitelisted numbers will not be rejected. Multiple numbers are supported and must be separated by new lines. Pattern matching is supported. Z match any digit from 1-9. N match any digit from 2-9. X match any digit from 0-9.
FWD Whitelist	 Calls from users in the forward whitelist will not be forwarded. Pattern matching is supported. Z match any digit from 1-9. N match any digit from 2-9. X match any digit from 0-9.
CC Settings	
Enable CC	If enabled, UCM630X will automatically alert this extension when a called party is available, given that a previous call to that party failed for some reason.
Ring Simultaneously	

Ring Simultaneously	Enable this option to have an external number ring simultaneously along with the extension. If a register trunk is used for outbound, the register number will be used to be displayed for the external number as the caller ID number.
External Number Set the external number to ring simultaneously. '-' is the connection character that will be ignored.	
Time Condition for Ring Simultaneously	Ring the external number simultaneously along with the extension based on this time condition.
Use callee DOD on FWD or RS	Use the callee's DOD number as CallerID on Outgoing Forwarding or Ring Simultaneously calls.

Hotline		
Enable Hotline	If enabled, a hotline dialing plan will be activated, a pre-configured number will be used according to the selected Hotline Type.	
Hotline Number	Configure the Hotline Number	
Hotline Type	 Configure the Hotline Type: Immediate Hotline: When the phone is off-hook, UCM630X will immediately dial the preset number Delay Hotline: When the phone is off hook, if there is no dialing within 5 seconds, UCM630X will dial the preset number. 	
Monitor privilege control	Members of the list can spy on this extension via feature codes.	
Seamless transfer privilege control		
Allowed to seamless transfer	Members of the list can seamlessly transfer via feature code.	
Other Settings		
Ring Timeout	Configure the number of seconds to ring the user before the call is forwarded to voicemail (voicemail is enabled) or hang up (voicemail is disabled). If not specified, the default ring timeout is 60 seconds on the UCM630X, which can be configured in the global ring timeout setting under Web GUI PBX Settings Voice Prompt Custom Prompt: General Preference. The valid range is between 5 seconds and 600 seconds. Note: If the endpoint also has a ring timeout configured, the actual ring timeout used is the shortest time set by either device.	
Auto Record	Auto Record Enable automatic recording for the calls using this extension. The default setting is disabled. The recording files can be accessed under Web GUI \rightarrow CDR \rightarrow Recording Files.	
Skip Trunk Auth	 If set to "Yes", users can skip entering the password when making outbound calls. If set to "By Time", users can skip entering the password when making outbound calls during the selected time condition. If set to "No", users will be asked to enter the password when making outbound calls. 	
Time Condition for Skip Trunk Auth	If "Skip Trunk Auth" is set to "By Time", select a time condition during which users can skip entering a password when making outbound calls.	

Dial Trunk Password Configure personal password when making outbound calls via the trunk.	
Enable LDAP	If enabled, this extension will be added to the LDAP Phonebook PBX list; if disabled, this extension will be skipped when creating LDAP Phonebook.
Use MOH as IVR ringback tone	If enabled, when the call to the extension is made through the IVR, the caller will hear MOH as a ringback tone instead of the regular ringback tone.
Music On Hold	Select which Music On Hold class to suggest to the extension when putting the active call on hold.

Check to enable and set the call limit the duration.
The maximum call duration (in seconds). The default value 0 means no limit. Max value is 86400 seconds
Send a log of missed calls to the extension's email address.
If Email Missed Calls enabled, users can select the type of missed calls to be sent via email, the available types are:
• Default: All missed calls will be sent in email notifications.
• Missed Internal Call: Only missed local extension-to-extension calls will be sent in email notifications.
• Missed External Call: Only missed calls from trunks will be sent in email notifications.

Specific Time	
Time Condition	Click to add Time Condition to configure a specific time for this extension.

Follow Me	
Enable	Configure to enable or disable Follow Me for this user.
Skip Trunk Auth	If the outbound calls need to check the password, we should enable this option or enable the option "Skip Trunk Auth" of the Extension. Otherwise, this Follow Me cannot call out.
Music On Hold Class	Configure the Music On Hold class that the caller would hear while tracking the user.
Confirm When Answering	If enabled, call will need to be confirmed after answering.
Enable Destination	Configure to enable destination.
Default Destination	The call will be routed to this destination if no one in the Follow Me answers the call.
Use Callee DOD for Follow Me	Use the callee DOD number as CID if configured Follow Me numbers are external numbers.
Play Follow Me Prompt	If enabled, the Follow Me prompt tone will be played.
New Follow Me Number	Add a new Follow Me number which could be a "Local Extension" or an "External Number". The selected dial plan should have permissions to dial the defined external number.
Dialing Order	This is the order in which the Follow Me destinations will be dialed to reach the user.

Batch Add Extensions

Batch Add SIP Extensions

To add multiple SIP extensions, BATCH add can be used to create standardized SIP extension accounts. However, a unique extension username cannot be set using BATCH add.

Under Web GUI→Extension/Trunk→Extensions, click on "Add" and select extension type as a SIP extension, and "Select Add Method" as Batch.

General	
Create Number	Specify the number of extensions to be added. The default setting is 5.
Extension Incrementatio n	Select how much to increment successive extensions. For example, if the value is 2, the extensions will be 1000,1002,1004, Note: Up to 3 characters.
Extension	Configure the starting extension number of the batch of extensions to be added.
Permission	Assign permission level to the user. The available permissions are "Internal", "Local", "National" and "International" from the lowest level to the highest level. The default setting is "Internal". Note: Users need to have the same level as or higher level than an outbound rule's privilege to make outbound calls from this rule.
Voicemail	 Configure Voicemail. There are three valid options, and the default option is "Enable Local Voicemail". Disable Voicemail: Disable Voicemail. Enable Local Voicemail: Enable voicemail for the user. Enable Remote Voicemail: Forward the notify message from the remote voicemail system for the user, and the local voicemail will be disabled. Note: Remote voicemail feature is used only for Infomatec (Brazil).
	 Configure the SIP/IAX password for the users. Three options are available to create a password for the batch of extensions. User Random Password.

SIP/IAX

Password

A random secure password will be automatically generated. It is recommended to use this password for security purposes.

• Use Extension as Password.

Enter a password to be used on all the extensions in the batch.

	Configure Voicemail password (digits only) for the users.
Voicemail Password	• User Random Password. A random password in digits will be automatically generated. It is recommended to use this password for security purposes.
	• Use Extension as Password. Enter a password to be used on all the extensions in the batch.
Send Voicemail to Email	Send voicemail messages to the configured email address. If set to "Default", the global setting will be used. Global settings can be found in Voicemail->Voicemail Email Settings.
Keep Voicemail after Emailing	Only applies if extension-level or global Send Voicemail to Email is enabled.
	Configure CallerID Number when adding Batch Extensions.
	• Use Extension as Number
CallerID Number	Users can choose to use the extension number as CallerID
	◦ Use as Number
	Users can choose to set a specific number instead of using the extension number.
Skip Voicemail Password Verification	When a user dials voicemail code, the password verification IVR is skipped. If enabled, this would allow one-button voicemail access. By default, this option is disabled.
Enable Keep- alive	If enabled, the PBX will regularly send SIP OPTIONS to check if the host device is online.
Keep-alive Frequency	Configure the keep-alive interval (in seconds) to check if the host is up.

Disable This Extension	Check this box to disable this extension.
Enable SCA	If enabled, (1) Call Forward, Call Waiting, and Do Not Disturb settings will not work, (2) Concurrent Registrations can be set only to 1, and (3) Private numbers can be added in Call Features \rightarrow SCA page.
Emergency Calls CID	CallerID number that will be used when calling out and receiving direct callbacks.

Enable Wave	If enabled, the extension can be registered to and accessed via Wave. If disabled, Wave cannot be used, but regular registration and calling functionality will still work.
Sync Contact	If enabled, this extension number will be displayed in the Wave contact, otherwise, it will not be displayed, and it cannot be found in the chat, but the user can still dial this number.
Language	Select voice prompt language for this extension. If set to "Default", the global setting for voice prompt language will be used.
Media	
NAT	Use NAT when the PBX is on a public IP communicating with devices hidden behind NAT (e.g., broadband router). If there is a one-way audio issue, usually it is related to NAT configuration or the Firewall's support of SIP and RTP ports. The default setting is enabled.
Enable Direct Media	By default, the PBX will route the media steams from SIP endpoints through itself. If enabled, the PBX will attempt to negotiate with the endpoints to route the media stream directly. It is not always possible for the PBX to negotiate endpoint-to-endpoint media routing. The default setting is "No".
DTMF Mode	Select DTMF mode for the user to send DTMF. The default setting is "RFC4733". If "Info" is selected, the SIP INFO message will be used. If "Inband" is selected, a-law or u-law are required. When "Auto" is selected, RFC4733 will be used if offered, otherwise "Inband" will be used.
Alert-info	When present in an INVITE request, the Alert-info header field specifies an alternative ring tone to the UAS.
SRTP	Enable/disable SRTP for RTP stream encryption.
Packet Loss Retransmissio n	Configure to enable Packet Loss Retransmission. NACK NACK+RTX(SSRC-GROUP) OFF
Video FEC	Check to enable Forward Error Correction (FEC) for Video.
FECC	Configure to enable FECC

Audio FEC	Check to enable Forward Error Correction (FEC) for Audio.
	Access Control List manages the IP addresses that can register to this extension.
ACL Policy	• Allow All: Any IP address can register to this extension.
	 Local Network: Only IP addresses in the configured network segments can register to this extension. Press "Add Local Network Address" to add more IP segments.

	Select the jitter buffer method.
T*44 D. 66	• Disable: Jitter buffer will not be used.
Jitter Buffer	• Fixed: Jitter buffer with a fixed size (equal to the value of "jitter buffer size")
	• Adaptive: Jitter buffer with an adaptive size (no more than the value of "max jitter buffer").
	• NetEQ: Dynamic jitter buffer via NetEQ.
Codec	Configure the codecs to be used.
Preference	
Call Transfer	
Presence	Select which presence status to set for the extension and configure call forward conditions for each status. Six possible options are
Status	possible: "Available", "Away", "Chat", "Custom", "DND" and "Unavailable". More details at [PRESENCE].
	Enable and configure the Call Forward Unconditional target number. Available options for target number are:
	• "None": Call forward deactivated.
	• "Extension": Select an extension from the dropdown list as CFU target.
	• "Custom Number": Enter a customer number as a target. For example: *97.
Call Forward	• "Voicemail": Select an extension from the dropdown list. Incoming calls will be forwarded to the voicemail of the selected
Unconditional	extension.
	• " Ring Group ": Select a ring group from the dropdown list as CFU target.
	• "Queues": Select a queue from the dropdown list as CFU target.
	• "Voicemail Group": Select a voicemail group from the dropdown list as CFU target.
	The default setting is "None".
	Select time condition for Call Forward Unconditional. CFU takes effect only during the selected time condition. The available time
	conditions are "Office Time", "Out of Office Time", "Holiday", "Out of Holiday", "Out of Office Time or Holiday", and "Specific".
	Note:
CFU Time Condition	• "Specific" has higher priority to "Office Times" if there is a conflict in terms of time period.
	• Specific time can be configured on the bottom of the extension configuration dialog. Scroll down the add Time Condition for a

specific time.

◦ Office Time and Holiday could be configured on page System Settings→Time Settings→Office Time/Holiday page.

	Configure the Call Forward No Answer target number. Available options for target number are:
	• "None": Call forward deactivated.
	• "Extension": Select an extension from the dropdown list as CFN target.
	• "Custom Number": Enter a customer number as a target. For example: *97.
Call Forward	• "Voicemail": Select an extension from the dropdown list. Incoming calls will be forwarded to the voicemail of the selected
No Answer	extension.
	• " Ring Group ": Select a ring group from the dropdown list as CFN target.
	• "Queues": Select a queue from the dropdown list as CFN target.
	• "Voicemail Group": Select a voicemail group from the dropdown list as CFN target.
	The default setting is "None".
	Select time condition for Call Forward No Answer. The available time conditions are "Office Time", "Out of Office Time", "Holiday",
	"Out of Holiday", "Out of Office Time or Holiday", and "Specific".
CFN Time	Notes:
Condition	• "Specific" has higher priority to "Office Times" if there is a conflict in terms of time period.
	• Specific time can be configured on the bottom of the extension configuration dialog. Scroll down the add Time Condition for a
	specific time.
	• Office Time and Holiday could be configured on page System Settings \rightarrow Time Settings \rightarrow Office Time/Holiday page.
	Configure the Call Forward Busy target number. Available options for target number are:
	• "None": Call forward deactivated.
	• "Extension": Select an extension from the dropdown list as CFB target.
	• "Custom Number": Enter a customer number as a target. For example: *97.
Call Forward	• "Voicemail": Select an extension from the dropdown list. Incoming calls will be forwarded to the voicemail of the selected
Busy	extension.
	• " Ring Group ": Select a ring group from the dropdown list as CFB target.
	• "Queues": Select a queue from the dropdown list as CFB target.
	• "Voicemail Group": Select a voicemail group from the dropdown list as CFB target.

The default setting is "None".

	Select time condition for Call Forward Busy. The available time conditions are "Office Time", "Out of Office Time", "Holiday", "Out of Holiday", "Out of Office Time or Holiday", and "Specific".
CFB Time	Notes:
Condition	• "Specific" has higher priority to "Office Times" if there is a conflict in terms of time period.
	• Specific time can be configured on the bottom of the extension configuration dialog. Scroll down the add Time Condition for a specific time.
	• Office Time and Holiday could be configured on page System Settings \rightarrow Time Settings \rightarrow Office Time/Holiday page.
Do Not	If Do Not Disturb is enabled, all incoming calls will be dropped.
Disturb	All call forward settings will be ignored.
	Select time condition for Do Not Disturb. The available time conditions are "Office Time", "Out of Office Time", "Holiday", "Out of
	Holiday", "Out of Office Time or Holiday", and "Specific".
	Notes:
DND Time Condition	• "Specific" has higher priority to "Office Times" if there is a conflict in terms of time period.
	• Specific time can be configured on the bottom of the extension configuration dialog. Scroll down the add Time Condition for a specific time.
	Office Time and Holiday could be configured on page System Settings \rightarrow Time Settings \rightarrow Office Time/Holiday page.
	If DND is enabled, calls from the whitelisted numbers will not be rejected. Multiple numbers are supported and must be separated by new
	lines. Pattern matching is supported.
DND Whitelist	• Z matches any digit from 1-9
vv mtenst	• N matches any digit from 2-9
	• X matches any digit from 0-9.
	Calls from users in the forward whitelist will not be forwarded. Pattern matching is supported.
FWD	• Z matches any digit from 1-9
Whitelist	• N matches any digit from 2-9
	W mothes and digit from 0.0

	• X matches any digit from 0-9.
CC Settings	
Enable CC	If enabled, UCM630X will automatically alert this extension when a called party is available, given that a previous call to that party failed for some reason. By default, it is disabled.

CC Mode	 Two modes for Call Completion are supported: Normal: This extension is used as an ordinary extension. For Trunk: This extension is registered from a PBX. The default setting is "Normal".
CC Max Agents	Configure the maximum number of CCSS agents which may be allocated for this channel. In other words, this number serves as the maximum number of CC requests this channel can make. The minimum value is 1.
CC Max Monitors	Configure the maximum number of monitor structures that may be created for this device. In other words, this number tells how many callers may request CC services for a specific device at one time. The minimum value is 1.
Ring Simultaneousl y	
Ring Simultaneousl y	Enable this option to have an external number ring simultaneously along with the extension. If a register trunk is used for outbound, the register number will be used to be displayed for the external number as the caller ID number.
External Number	Set the external number to ring simultaneously. '-' is the connection character that will be ignored. This field accepts only letters, numbers, and special characters $+ = * #$.
Time Condition for Ring Simultaneousl y	Ring the external number simultaneously along with the extension based on this time condition.
Use callee DOD on FWD or RS	Use the DOD number when calls are being diverted/forwarded to external destinations or when ring simultaneous is configured.
Monitor privilege	

control	
Allowed to	Add members from "Available Extensions" to "Selected Extensions" so that the selected extensions can spy on the used extension using feature code.
call-barging	
Seamless transfer privilege control	

Allowed to seamless transfer	Any extensions on the UCM can perform a seamless transfer. When using the Pickup Incall feature, only extensions available on the "Selected Extensions" list can perform a seamless transfer to the edited extension.
Other Settings	
Ring Timeout	Configure the number of seconds to ring the user before the call is forwarded to voicemail (voicemail is enabled) or hang up (voicemail is disabled). If not specified, the default ring timeout is 60 seconds on the UCM630X, which can be configured in the global ring timeout setting under Web GUI \rightarrow PBX Settings \rightarrow Voice Prompt \rightarrow Custom Prompt: General Preference. The valid range is between 3 seconds and 600 seconds. Note: If the endpoint also has a ring timeout configured, the actual ring timeout used is the shortest time set by either device.
Auto Record	Enable automatic recording for the calls using this extension. The default setting is disabled. The recordings can be accessed under Web $GUI \rightarrow CDR \rightarrow Recording Files$.
Skip Trunk Auth	 If set to "yes", users can skip entering the password when making outbound calls. If set to "By Time", users can skip entering the password when making outbound calls during the selected time condition. If set to "No", users will be asked to enter the password when making outbound calls.
Time Condition for Skip Trunk Auth	If 'Skip Trunk Auth' is set to 'By Time', select a time condition during which users can skip entering a password when making outbound calls.
Dial Trunk Password	Configure personal password when making outbound calls via the trunk.
Enable LDAP	If enabled, the extension will be added to the LDAP Phonebook PBX list.
Bind PMS Room	If enabled, the system will create a room whose room number, by default, will equal the extension number in the PMS module. Note: If this room already exists, the configuration of the existing room will be overwritten.
Music On Hold	Specify which Music On Hold class to suggest to the bridged channel when putting them on hold.

Call Duration Limit	The maximum duration of call-blocking.
Maximum Call Duration	The maximum call duration (in seconds). The default value 0 means no limit.
Call Waiting	If disabled, UCM will not invite the extension when it is already in a call and will do the same work as the user is busy. Note: the option only works when the caller dials the extension directly.

Batch Add IAX Extensions

Under Web GUI→Extension/Trunk→Extensions, click on "Add", then select extension type as IAX Extension and the add method to be Batch.

General	General	
Create Number	Specify the number of extensions to be added. The default setting is 5.	
Extension Incrementatio n	Select how much to increment successive extensions. For example, if the value is 2, the extensions will be 1000,1002,1004,	
Extension	The extension number associated with this particular user/phone.	
Permission	Assign permission level to the user. The available permissions are "Internal", "Local", "National" and "International" from the lowest level to the highest level. The default setting is "Internal". Note: Users need to have the same level as or higher level than an outbound rule's privilege to make outbound calls from this rule.	
CallerID Number	Configure the Caller ID number displayed when dialing calls from this user. Note: The Caller ID usage might be limited by your VoIP provider. In Batch Add Method, "e" means to use the extension as the number.	
Voicemail	 Configure Voicemail. There are three valid options and the default option is "Enable Local Voicemail". Disable Voicemail: Disable Voicemail. Enable Local Voicemail: Enable voicemail for the user. 	
SIP/IAX Password	 Configure the SIP/IAX password for the users. Three options are available to create a password for the batch of extensions. User Random Password. A random secure password will be automatically generated. It is recommended to use this password for security purposes. Use Extension as Password. Enter a password to be used on all the extensions in the batch. 	

Password

A random password in digits will be automatically generated. It is recommended to use this password for security purposes.

• Use Extension as Password.

• User Random Password.

• Enter a password to be used on all the extensions in the batch.

Configure Voicemail password (digits only) for the users.

Send Voicemail to Email	Send voicemail messages to the configured email address. If set to "Default", the global setting will be used. Global settings can be found in Voicemail \rightarrow Voicemail Email Settings.	
Keep Voicemail after Emailing	Only applies if extension-level or global Send Voicemail to Email is enabled.	
Auto Record	Enable automatic recording for the calls using this extension. The default setting is disabled. The recording files can be accessed under Web $GUI \rightarrow CDR \rightarrow Recording Files$.	
Skip Voicemail Password Verification	When a user dials voicemail code, the password verification IVR is skipped. If enabled, this would allow one-button voicemail access. By default, this option is disabled.	
Disable This Extension	Check this box to disable this extension.	
Language	Select voice prompt language for this extension. If set to "Default", the global setting for voice prompt language will be used.	
IAX Settings		
Max Number of Calls	Configure the maximum number of calls allowed for each remote IP address.	
Require Call Token	Configure to enable/disable requiring call token. If set to "Auto", it might lock out users who depend on backward compatibility when peer authentication credentials are shared between physical endpoints. The default setting is "Yes".	
SRTP	Enable/disable SRTP for RTP stream encryption.	
ACL Policy	 Access Control List manages the IP addresses that can register to this extension. Allow All: Any IP address can register to this extension. 	
•	· man man man in address can register to ans extension.	

	• Local Network: Only IP addresses in the configured network segments can register to this extension.	
Codec Preference	Configure the codecs to be used.	
Call Transfer		
Call Forward Unconditional	Enable and configure the Call Forward Unconditional target number.	

CFU Time Condition	 Select time condition for Call Forward Unconditional. CFU takes effect only during the selected time condition. The available time conditions are "Office Time", "Out of Office Time", "Holiday", "Out of Holiday", "Out of Office Time or Holiday", and "Specific". Note: "Specific" has higher priority to "Office Times" if there is a conflict in terms of time period. Specific time can be configured on the bottom of the extension configuration dialog. Scroll down the add Time Condition for a specific time. Office Time and Holiday could be configured on page System Settings→Time Settings→Office Time/Holiday page.
Call Forward No Answer	Configure the Call Forward No Answer target number.
CFN Time Condition	 Select time condition for Call Forward No Answer. The available time conditions are "Office Time", "Out of Office Time", "Holiday", "Out of Holiday", "Out of Office Time or Holiday", and "Specific". Notes: "Specific" has higher priority to "Office Times" if there is a conflict in terms of time period. Specific time can be configured on the bottom of the extension configuration dialog. Scroll down the add Time Condition for a specific time. Office Time and Holiday could be configured on page System Settings→Time Settings→Office Time/Holiday page.
Call Forward Busy	Configure the Call Forward Busy target number.
CFB Time Condition	 Select time condition for Call Forward Busy. The available time conditions are "Office Time", "Out of Office Time", "Holiday", "Out of Holiday", "Out of Office Time or Holiday", and "Specific". Notes: Specific" has higher priority to "Office Times" if there is a conflict in terms of time period. Specific time can be configured on the bottom of the extension configuration dialog. Scroll down the add Time Condition for a specific time. Office Time and Holiday could be configured on page System Settings→Time Settings→Office Time/Holiday page.

Do Not	If Do Not Disturb is enabled, all incoming calls will be dropped.
Disturb	All call forward settings will be ignored.

DND Time Condition	 Select time condition for Do Not Disturb. The available time conditions are "Office Time", "Out of Office Time", "Holiday", "Out of Holiday", "Out of Office Time or Holiday", and "Specific". Notes: Specific" has higher priority to "Office Times" if there is a conflict in terms of time period. Specific time can be configured on the bottom of the extension configuration dialog. Scroll down the add Time Condition for a specific time. Office Time and Holiday could be configured on page System Settings →Time Settings →Office Time/Holiday page.
DND Whitelist	 If DND is enabled, calls from the whitelisted numbers will not be rejected. Multiple numbers are supported and must be separated by new lines. Pattern matching is supported. Z match any digit from 1-9, N match any digit from 2-9, X match any digit from 0-9.
FWD Whitelist	 Calls from users in the forward whitelist will not be forwarded. Pattern matching is supported. Z match any digit from 1-9, N match any digit from 2-9, X match any digit from 0-9.
Ring Simultaneousl y	
Ring Simultaneousl y	Enable this option to have an external number ring simultaneously along with the extension. If a register trunk is used for outbound, the register number will be used to be displayed for the external number as the caller ID number.
External Number	Set the external number to ring simultaneously. '-' is the connection character that will be ignored. This field accepts only letters, numbers, and special characters $+ = * #$.
Time	

Condition for	
Ring	Ring the external number simultaneously along with the extension based on this time condition.
Simultaneousl	
У	
Use callee	
DOD on FWD	Use the DOD number when calls are being diverted/forwarded to external destinations or when ring simultaneous is configured.
or RS	

Monitor privilege control	
Allowed to call-barging	Add members from "Available Extensions" to "Selected Extensions" so that the selected extensions can spy on the used extension using feature code.
Seamless transfer privilege control	
Allowed to seamless transfer	Any extensions on the UCM can perform a seamless transfer. When using the Pickup Incall feature, only extensions available on the "Selected Extensions" list can perform a seamless transfer to the edited extension.
Other Settings	
Ring Timeout	Configure the number of seconds to ring the user before the call is forwarded to voicemail (voicemail is enabled) or hang up (voicemail is disabled). If not specified, the default ring timeout is 60 seconds on the UCM630X, which can be configured in the global ring timeout setting under Web GUI→PBX Settings→Voice Prompt→Custom Prompt: General Preference. The valid range is between 5 seconds and 600 seconds. Note: If the endpoint also has a ring timeout configured, the actual ring timeout used is the shortest time set by either device.
Auto Record	Enable automatic recording for the calls using this extension. The default setting is disabled. The recordings can be accessed under Web GUI→CDR→Recording Files.
Skip Trunk Auth	 If set to "yes", users can skip entering the password when making outbound calls. If set to "By Time", users can skip entering the password when making outbound calls during the selected time condition. If set to "No", users will be asked to enter the password when making outbound calls.
Time Condition for	If 'Skip Trunk Auth' is set to 'By Time', select a time condition during which users can skip entering a password when making outbound

Skip Trunk Auth	calls.
Dial Trunk Password	Configure personal password when making outbound calls via the trunk.
Enable LDAP	If enabled, the extension will be added to the LDAP Phonebook PBX list.
Music On Hold	Specify which Music On Hold class to suggest to the bridged channel when putting them on hold.

Call Duration Limit	Check to enable and set the call limit the duration.
Maximum Call Duration (s)	The maximum call duration (in seconds). The default value 0 means no limit. Max value is 86400 seconds

Table 54: Batch Add IAX Extension Parameters

Batch Extension Resetting Functionality

Users can select multiple extensions and reset their settings to default by pressing the reset button Reset and confirming the reset functionality. Once done, all settings on the Basic Settings page will be restored to default values except for Concurrent Registrations. User voicemail password will be reset to Random Password. User voicemail prompts and recordings will be deleted. User Management settings will also be restored to default except for usernames and custom privileges

Search and Edit Extension

All the UCM630X extensions are listed under Web GUI \rightarrow Extension/Trunk \rightarrow Extensions, with status, Extension, CallerID Name, Technology (SIP, IAX, and FXS), IP and Port. Each extension has a checkbox for users to "Edit" or "Delete". Also, options "Edit" \square , "Reboot" \bigcirc and "Delete" \blacksquare are available per extension. Users can search for an extension by specifying the extension number to find an extension quickly.

Manage Extensions

• Status

Users can see the following icon for each extension to indicate the SIP status.

Green: Idle

Blue: Ringing

Yellow: In Use

Grey: Unavailable (the extension is not registered or disabled on the PBX)

• Edit single extension

Click on to start editing the extension parameters.

• Reset single extension

Click on to reset the extension parameters to default (except concurrent registration).

Other settings will be restored to default in Maintenance \rightarrow User Management \rightarrow User Information except for username and permissions and delete the user voicemail prompt and voice messages.

1 Note

This is the expected behavior when you reset an extension:

- All the data and configuration on the user side will be deleted. That includes user information, call history, call recordings, faxes, voice mails, meeting schedules and recordings, as well as chat history. However, the data related to the user will be kept on the UCM side.
- The extension will be removed from group chats and the messages sent previously by the extension will be kept. However, only other users can search through those messages while the new user of the extension cannot.
- If the extension was in a meeting schedule, the meeting will still be present. The extension will be removed from the meeting and will not be notified about the meeting.

• Reboot the user

Click on \bigcirc to send NOTIFY reboot event to the device which has a UCM630X extension already registered. To successfully reboot the user, "Zero Config" needs to be enabled on the UCM630X Web GUI \rightarrow Other Features \rightarrow Zero Config \rightarrow Zero Config Settings.

• Delete single extension

Click on 💼 to delete the extension. Or select the checkbox of the extension and then click on "Delete Selected Extensions".

This is the expected behavior when you delete an extension:

- The system will delete all the data of the extension except the CDR and meetings record. All the data on the user side will be erased.
- The extension will be removed from group chats and the messages sent previously by the extension will be kept. However, only other users can search through those messages while the new user of the extension cannot.
- If the extension was in a meeting schedule, the meeting will still be present. The extension will be removed from the meeting and will not be notified about the meeting.

• Modify selected extensions

Select the checkbox for the extension(s). Then click on "Edit" to edit the extensions in a batch.

• Delete selected extensions

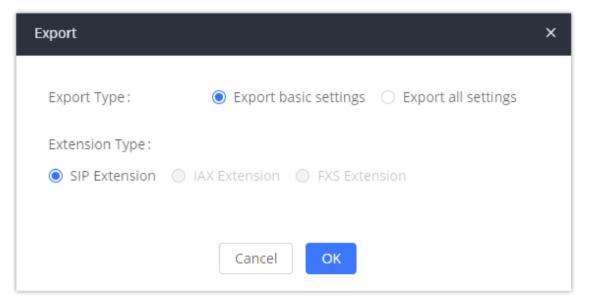
Select the checkbox for the extension(s). Then click on "Delete" to delete the extension(s).

Export Extensions

The extensions configured on the UCM630X can be exported to a CSV format file with selected technology "SIP", "IAX" or "FXS". Click on the "Export Extensions" button and select technology in the prompt below.

🗹 Edit /	All SIP	E-mail Notificatio	n v	More 🗸	
EXTENS	ION \$	NAME 🖨	MESSA	Import	
				Export	
1000			0/0/0	Reset	C,
1001		Arthur Morgan	0/0/0	Follow Me Options	C
1002		Bonnie MacF	0/0/0	SIP(WebR	TC
1003		Catherine Bra	0/0/0	SIP(WebR	TC)
1004		John Marston	0/0/0	SIP(WebR	TC

Export Extensions



Export Basic Settings

Export Basic Information includes:

- Extension
- CallerID Number

• Privilege

• SIP/IAX Password

• AuthID

• Voicemail

Voicemail Password

• Sync Contact

• First Name

• Last Name

- Email Address
- User/Wave Password

If importing extensions with no values for settings, the following will occur:

- If importing new extensions, or if **Replace** is selected as the duplicate import option, the default values for those settings will be used.
- If **Update** is selected as the duplicate import option, no changes will be made to the existing settings.

The exported CSV file can serve as a template for users to fill in desired extension information to be imported to the UCM630X.

Import Extensions

The capability to import extensions to the UCM630X provides users the flexibility to batch add extensions with similar or different configurations quickly into the PBX system.

- 1. Export extension CSV file from the UCM630X by clicking on the "Export Extensions" button.
- 2. Fill up the extension information you would like in the exported CSV template.
- 3. Click on the "Import Extensions" button. The following dialog will be prompted.

Import		×				
Please use UTF-8 encoding when importing a CSV file. CSV files can be opened using programs such as Notepad and saved as a UTF-8 encoded file.						
On Duplicate Extension:	Skip	^				
Extension File:	Skip					
	Delete and Recreate					
	Update Information Cancel Upload					
1004	SIFLAVE					

Import Extensions

4. Select the option in "On Duplicate Extension" to define how the duplicate extension(s) in the imported CSV file should be treated by the PBX.

- Skip: Duplicate extensions in the CSV file will be skipped. The PBX will keep the current extension information as previously configured without change.
- Delete and Recreate: The current extension previously configured will be deleted and the duplicate extension in the CSV file will be loaded to the PBX.
- Update Information: The current extension previously configured in the PBX will be kept. However, if the duplicate extension in the CSV file has a different configuration for any options, it will override the configuration for those options in the extension.

5. Click on "Choose file to upload" to select a CSV file from a local directory on the PC.

6. Click on "Apply Changes" to apply the imported file on the UCM630X.

Example of a file to import:

	Α	В	С	D	E	F	G	Н	I	J	K	L	М	Ν	0	Р
1	Extension	First Nam	Last Name	Technolog	Enable Vo	CallerID	SIP/IAX P	Voicemail	Skip Voic	Ring Time	Auto Reco	SRTP	Fax Mode	Strategy	Local Sub	Local Sub
2	1000			SIP(WebRT	yes		123456Adm	130270	no		off	no	None	Allow All		
3	1001			SIP(WebRT	no		123456Adm	2426	no		off	no	None	Allow All		
4	1002			SIP(WebRT	yes		123456Adm	771324	no		off	no	None	Allow All		
5	1003			SIP(WebRT	yes		123456Adm	398159	no		off	no	None	Allow All		
6	1004			SIP(WebRT	yes		123456Adm	89737	no		off	no	None	Allow All		

Import File

Field	Supported Values
Extension	Digits
Technology	SIP/SIP(WebRTC)
Enable Voicemail	yes/no/remote
CallerID Number	Digits
SIP/IAX Password	Alphanumeric characters
Voicemail Password	Digits
Skip Voicemail Password Verification	yes/no
Ring Timeout	Empty/ 3 to 600 (in second)
SRTP	yes/no
Strategy	Allow All/Local Subnet Only/A Specific IP Address
Local Subnet 1	IP address/Mask
Local Subnet 2	IP address/Mask
Local Subnet 3	IP address/Mask
Local Subnet 4	IP address/Mask
Local Subnet 5	IP address/Mask
Local Subnet 6	IP address/Mask
Local Subnet 7	IP address/Mask
Local Subnet 8	IP address/Mask
Local Subnet 9	IP address/Mask
Local Subnet 10	IP address/Mask
Specific IP Address	IP address
Skip Trunk Auth	yes/no/bytime

Field	Supported Values
Codec Preference	PCMU,PCMA,GSM,G.726,G.722,G.729,H.264,ILBC,AAL2-G.726-32,ADPCM,G.723,H.263,H.263p,vp8,opus
Permission	Internal/Local/National/International
NAT	yes/no
DTMF Mode	RFC4733/info/inband/auto
Insecure	Port
Enable Keep-alive	Yes/no
Keep-alive Frequency	Value from 1-3600
AuthID	Alphanumeric value without special characters
TEL URI	Disabled/user=phone/enabled
Call Forward Busy	Digits
Call Forward No Answer	Digits
Call Forward Unconditional	Digits
Support Hot-Desking Mode	Yes/no
Dial Trunk Password	Digits
Disable This Extension	Yes/no
CFU Time Condition	All time/Office time/out of office time/holiday/out of holiday/out of office time or holiday/specific time
CFN Time Condition	All time/Office time/out of office time/holiday/out of holiday/out of office time or holiday/specific time
CFB Time Condition	All time/Office time/out of office time/holiday/out of holiday/out of office time or holiday/specific time

Music On Hold	Default/ringbacktone_default
	If CC is disabled use: never
CC Agent Policy	If CC is set to normal use: generic
	If CC is set to trunk use: native
CC Monitor Policy	Generic/never

Field	Supported Values
CCBS Available Timer	3600/4800
CCNR Available Timer	3600/7200
CC Offer Timer	60/120
CC Max Agents	Value from 1-999
CC Max Monitors	Value from 1-999
Ring simultaneously	Yes/no
External Number	Digits
Time Condition for Ring Simultaneously	All time/Office time/out of office time/holiday/out of holiday/out of office time or holiday/specific time
Time Condition for Skip Trunk Auth	All time/Office time/out of office time/holiday/out of holiday/out of office time or holiday/specific time
Enable LDAP	Yes/no
Enable T.38 UDPTL	Yes/no
Max Contacts	Values from 1-10
Enable Wave	Yes/no
Alert-Info	None/Ring 1/Ring2/Ring3/Ring 4/Ring 5/Ring 6/Ring 7/ Ring 8/Ring 9/Ring 10/bellcore-dr1/bellcore-dr2/ bellcore- dr3/ bellcore-dr4/ bellcore-dr5/custom
Do Not Disturb	Yes/no
DND Time Condition	All time/Office time/out of office time/holiday/out of holiday/out of office time or holiday/specific time
Custom Auto answer	Yes/no
Do Not Disturb Whitelist	Empty/digits
User Password	Alphanumeric characters.
First Name	Alphanumeric without special characters.
Last Name	Alphanumeric without special characters.

Field	Supported Values
Email Address	Email address
Language	Default/en/zh
Phone Number	Digits
Call-Barging Monitor	Extensions allowed to call barging
Seamless Transfer Members	Extensions allowed to seamless transfer

Table 55: SIP extensions Imported File Example

Field	Supported Values
Extension	Digits
Technology	IAX
Enable Voicemail	yes/no
CallerID Number	Digits
SIP/IAX Password	Alphanumeric characters
Voicemail Password	Digits
Skip Voicemail Password Verification	yes/no
Ring Timeout	Empty/ 3 to 600 (in second)
SRTP	yes/no
Strategy	Allow All/Local Subnet Only/A Specific IP Address
Local Subnet 1	IP address/Mask
Local Subnet 2	IP address/Mask
Local Subnet 3	IP address/Mask
Local Subnet 4	IP address/Mask
Local Subnet 5	IP address/Mask
Local Subnet 6	IP address/Mask

Field	Supported Values
Local Subnet 7	IP address/Mask
Local Subnet 8	IP address/Mask
Local Subnet 9	IP address/Mask
Local Subnet 10	IP address/Mask
Specific IP Address	IP address
Skip Trunk Auth	yes/no/bytime
Codec Preference	PCMU,PCMA,GSM,G.726,G.722,G.729,H.264,ILBC,AAL2-G.726- 32,ADPCM,G.723,H.263,H.263p,vp8,opus
Permission	Internal/Local/National/International
NAT	yes/no
Call Forward Busy	Digits
Call Forward No Answer	Digits
Call Forward Unconditional	Digits
Require Call Token	Yes/no/auto
Max Number of Calls	Values from 1-512
Dial Trunk Password	Digits
Disable This Extension	Yes/no
CFU Time Condition	All time/Office time/out of office time/holiday/out of holiday/out of office time or holiday/specific time
CFN Time Condition	
CFB Time Condition	All time/Office time/out of office time/holiday/out of holiday/out of office time or holiday/specific time
Music On Hold	Default/ringbacktone_default
Ring simultaneously	Yes/no
External Number	Digits

Field	Supported Values
Time Condition for Ring Simultaneously	All time/Office time/out of office time/holiday/out of holiday/out of office time or holiday/specific time
Time Condition for Skip Trunk Auth	All time/Office time/out of office time/holiday/out of holiday/out of office time or holiday/specific time
Enable LDAP	Yes/no
Limit Max time (s)	empty
Do Not Disturb	Yes/no
DND Time Condition	All time/Office time/out of office time/holiday/out of holiday/out of office time or holiday/specific time
Do Not Disturb Whitelist	Empty/digits
User Password	Alphanumeric characters.
First Name	Alphanumeric without special characters.
Last Name	Alphanumeric without special characters.
Email Address	Email address
Language	Default/en/zh
Phone Number	Digits
Call-Barging Monitor	Extensions allowed to call barging
Seamless Transfer Members	Extensions allowed to seamless transfer

Table 56: IAX extensions Imported File Example

Field	Supported Values
Extension	Digits

Technology	FXS
Analog Station	FXS1/FXS2
Enable Voicemail	yes/no
CallerID Number	Digits
Voicemail Password	Digits

Field	Supported Values
Skip Voicemail Password Verification	yes/no
Ring Timeout	Empty/ 3 to 600 (in second)
Auto Record	yes/no
Fax Mode	None/Fax Gateway/Fax Detection
Skip Trunk Auth	Yes/no/bytime
Permission	Internal/Local/National/International
Call Forward Busy	Digits
Call Forward No Answer	Digits
Call Forward Unconditional	Digits
Call Waiting	Yes/no
Use # as SEND	Yes/no
RX Gain	Values from $-30 \rightarrow 6$
TX Gain	Values from $-30 \rightarrow 6$
MIN RX Flash	Values from: 30 – 1000
MAX RX Flash	Values from: 40 – 2000
Enable Polarity Reversal	Yes/no
Echo Cancellation	On/Off/32/64/128/256/512/1024
3-Way Calling	Yes/no
Send CallerID After	1/2
Dial Trunk Password	digits
Disable This Extension	Yes/no
CFU Time Condition	All time/Office time/out of office time/holiday/out of holiday/out of office time or holiday/specific time
CFN Time Condition	All time/Office time/out of office time/holiday/out of holiday/out of office time or holiday/specific time

Field	Supported Values
	Supported Values
CFB Time Condition	All time/Office time/out of office time/holiday/out of holiday/out of office time or holiday/specific time
Music On Hold	Default/ringbacktone_default
	If CC is disabled use: never
CC Agent Policy	If CC is set to normal use: generic
	If CC is set to trunk use: native
CC Monitor Policy	Generic/never
CCBS Available Timer	3600/4800
CCNR Available Timer	3600/7200
CC Offer Timer	60/120
CC Max Agents	Value from 1-999
CC Max Monitors	Value from 1-999
Ring simultaneously	Yes/no
External Number	Digits
Time Condition for Ring Simultaneously	All time/Office time/out of office time/holiday/out of holiday/out of office time or holiday/specific time
Time Condition for Skip Trunk Auth	
Enable LDAP	Yes/no
Enable Hotline	Yes/no
Hotline Type	Immediate hotline/delay hotline
Hotline Number	digits
Limit Max time (s)	empty
Do Not Disturb	Yes/no
DND Time Condition	All time/Office time/out of office time/holiday/out of holiday/out of office time or holiday/specific time
Do Not Disturb Whitelist	Empty/digits

Field	Supported Values
User Password	Alphanumeric characters.
First Name	Alphanumeric without special characters.
Last Name	Alphanumeric without special characters.
Email Address	Email address
Language	Default/en/zh
Phone Number	Digits
Call-Barging Monitor	Extensions allowed to call barging
Seamless Transfer Members	Extensions allowed to seamless transfer

Table 57: FXS Extensions Imported File Example

The CSV file should contain all the above fields, if one of them is missing or empty, the UCM630X will display the following error message for missing fields.



Import Error

Extension Details

Users can click on an extension number in the *Extensions* list page and quickly view information about it such as:

- **Extension**: This shows the Extension number.
- $\circ~$ Status: This shows the status of the extension.
- $\circ~$ $\ensuremath{\textbf{Presence status}}$: Indicates the Presence Status of this extension.
- **Terminal Type**: This shows the type of the terminal using this extension (SIP, FXS...etc.).
- Caller ID Name: Reveals the Caller ID Name configured on the extension.
- **Messages**: Shows the messages' stats.
- **IP and Port**: The IP address and the ports of the device using the extension.
- **Email status**: Show the Email status (sent, to be sent...etc.).
- **Ring Group**: Indicates the ring groups that this extension belongs to.
- **Call Queue**: Indicates the Cal Queues that this extension belongs to.
- Call Queue (Dynamic): Indicates the Call Queues that this extension belongs to as a dynamic agent.

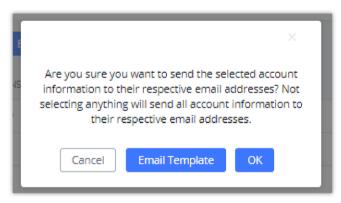
More	×
OPTIONS	VALUE
Extension	1000
Status	Unavailable
Presence Status	Available
Terminal Type	SIP(WebRTC)
CallerID Name	
Message	0/0/0
IP and Port	
Email Status	To Be Sent
Ring Group	
Call Queue	
Call Queue(Dynamic)	

Extension Details

E-mail Notification

Once the extensions are created with Email addresses, the PBX administrator can click on the button "E-mail Notification" to send the account registration and configuration information to the user. Please make sure the Email setting under Web GUI \rightarrow System Settings \rightarrow Email Settings is properly configured and tested on the UCM630X before using "E-mail Notification".

When clicking on "More" > "E-mail Notification" button, the following message will be prompted on the web page. Click on OK to confirm sending the account information to all users' Email addresses.



E-mail Notification – Prompt Information

The user will receive an Email including account registration information as well as the Wave Settings with the QR code:

Wave Settings and QR Code



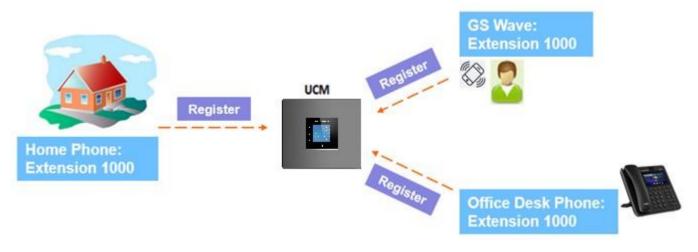
For security and confidentiality reasons, it is high advisable for the user to change the Wave login extension after the first time log in.

The UCM admin can also send "Remote Registration Mail" and "Wave Welcome Mail" as the figure below shows

Send Remote Registration Mail

Multiple Registrations per Extension

UCM630X supports multiple registrations per extension so that users can use the same extension on devices in different locations.



Multiple Registrations per Extension

This feature can be enabled by configuring the option "Concurrent Registrations" under Web GUI \rightarrow Extension/Trunk \rightarrow Edit Extension. The default value is set to 1 for security purposes. The maximum is 10.

Basic Settings Medi General * Extension: * Permission:	ia Features 1000 Internal	Specific Time Fol	low Me	CallerID Number:		Cancel
* Extension:				CallerD Number"		
				CallerID Number		
* Permission :	Internal			caller b Hamber	1000	
			~	* SIP/IAX Password :	> ₂₇ 4	
AuthID:				Voicemail :	Local Voicemail v	
* Voicemail Password :	•••••		² yrf ⁴	Skip Voicemail Password Verification :		
Send Voicemail to Email	Default		~	Keep Voicemail after Emailing:	Default v	
Enable Keep-alive :				* Keep-alive Frequency:	60	
Disable This Extension:				Enable SCA:		
Emergency Calls CID:						
User Settings						
First Name:				Last Name:		
Email Address :				* User Password :	*****	
* Language :	Default		~	* Concurrent Registrations:	3	
Mobile Phone Number:						



SMS Message Support

The UCM630X provides built-in SIP SMS message support. For SIP end devices such as Grandstream GXP or GXV phones that support SIP message, after a UCM630X account is registered on the end device, the user can send and receive SMS messages. Please refer to the end device documentation on how to send and receive SMS messages.



SMS Message Support

EXTENSION GROUPS

The UCM630X extension group feature allows users to assign and categorize extensions in different groups to better manage the configurations on the UCM630X. For example, when configuring "Enable Filter on Source Caller ID", users could select a group instead of each person's extension to assign. This feature simplifies the configuration process and helps manage and categorize the extensions for a business environment.

Configure Extension Groups

Extension groups can be configured via Web GUI→Extension/Trunk→Extension Groups.

- Click on to create a new extension group.
- Click on to edit the extension group.
- Click on to delete the extension group.

Select extensions from the list on the left side to the right side.

Create New Exte	nsion Group			
* Name:	Tech_Supprot_Team			
Members:	0 item Available	<	6 items	Selected
	Search Q	>	Search	Q
		1	1000	^
	None	^	4001	
		\sim	4002	
			4003	-

Edit Extension Group

Click on

to change the ringing priority of the members selected on the group.

Using Extension Groups

Here is an example where the extension group can be used. Go to Web GUI→Extension/Trunk→Outbound Routes and select "Enable Filter on Source Caller ID". Both single extensions and extension groups will show up for users to select.

Calling Rule Name :	test	Disable This Route :
Pattern :	_9x.	Privilege Level : Disable V
PIN Groups:	None v	PIN Groups with Privilege Level :
Password :		
nable Filter on Source Caller	ID	
nable Filter on Source Caller		Outbound Route CID :
D:		

Select Extension Group in Outbound Route

ANALOG TRUNKS

Go to Web GUI→Extension/Trunk→Analog Trunks to add and edit analog trunks.

- Click on "Create New Analog Trunk" to add a new analog trunk.
- Click on to edit the analog trunk.
- Click on to delete the analog trunk.

Analog Trunk Configuration

The analog trunk options are listed in the table below.

FXO Port	 Select the channel for the analog trunk. UCM6301: 1 channel UCM6302: 2 channels UCM6304: 4 channels UCM6308: 8 channels
Trunk Name	Specify a unique label to identify the trunk when listed in outbound rules, incoming rules, etc.
Advanced Options	
SLA Mode	Enable this option to satisfy two primary use cases, which include emulating a simple key system and creating shared extensions on a PBX. Enable SLA Mode will disable polarity reversal.
Barge Allowed	The barge option specifies whether other stations can join a call in progress on this trunk. If enabled, the other stations can press the line button to join the call. The default setting is Yes.
Hold Access	The hold option specifies hold permissions for this trunk. If set to "Open", any station can place this trunk on hold and any other station is allowed to retrieve the call. If set to "Private", only the station that places the call on hold can retrieve the call. The default setting is Yes.

Enable Polarity Reversal	If enabled, a polarity reversal will be marked as received when an outgoing call is answered by the remote party. For some countries, a polarity reversal is used for signaling the disconnection of a phone line and the call will be considered as "Hangup" on a polarity reversal. The default setting is "No".
Polarity on Answer Delay	When the FXO port answers the call, FXS may send a Polarity Reversal. If this interval is shorter than the value of "Polarity on Answer Delay", the Polarity Reversal will be ignored. Otherwise, the FXO will On-hook to disconnect the call. The default setting is 600ms.

Current Disconnect Threshold (ms)	This is the periodic time (in ms) that the UCM630X will use to check on a voltage drop in the line. The default setting is 200. The valid range is 50 to 3000.
Ring Timeout	Configure the ring timeout (in ms). Trunk (FXO) devices must have a timeout to determine if there was a Hangup before the line is answered. This value can be used to configure how long it takes before the UCM630X considers a non-ringing line with Hangup activity. The default setting is 8000.
RX Gain	Configure the RX gain for the receiving channel of the analog FXO port. The valid range is from -13.5 (dB) to + 12.0 (dB). The default setting is 0.
TX Gain	Configure the TX gain for the transmitting channel of the analog FXO port. The valid range is from -13.5 (dB) to + 12.0 (dB). The default setting is 0.
Use CallerID	Configure to enable CallerID detection. The default setting is "Yes".
Caller ID Scheme	 Select the Caller ID scheme for this trunk. Bellcore/Telcordia. ETSI-FSK During Ringing ETSI-FSK Prior to Ringing with DTAS ETSI-FSK Prior to Ringing with LR ETSI-DTMF During Ringing ETSI-DTMF Prior to Ringing with DTAS ETSI-DTMF Prior to Ringing with DTAS ETSI-DTMF Prior to Ringing with LR ETSI-DTMF Prior to Ringing with LR SIN 227-BT NTT Japan Auto-Detect

If you are not sure which scheme to choose, please select "Auto Detect". The default setting is "Bellcore/Telcordia".

Configures how faxes to this extension will be handled.

• **None:** Faxes will not be processed.

Fax Mode

• Fax Gateway: Faxes to this extension will be processed and converted from T.30 to T.38 or vice-versa. FXS/FXO ports only.

The default setting is None.

FXO Dial Delay (ms)	Configure the time interval between off-hook and first dialed digit for outbound calls.
Auto Record	Enable automatic recording for the calls using this trunk. The default setting is disabled. The recording files can be accessed under Web $GUI \rightarrow CDR \rightarrow Recording Files$.
Disable This Trunk	If selected, the trunk will be disabled, and incoming/Outgoing calls via this trunk will not be possible.
	This is to implement an analog trunk outbound line selection strategy.
	Three options are available:
	• Ascend
	When the call goes out from this analog trunk, it will always try to use the first idle FXO port. The port order that the call will use to go
	out if UCM6302 is used would be port $1 \rightarrow \text{port } 2 \rightarrow$. Every time it will start with port 1 (if it is idle).
DAHDI Out	• Poll
Line Selection	When the call goes out from this analog trunk, it will use the port that is not used last time. And it will always use the port in the order of
	port $1 \rightarrow 2 \rightarrow 1 \rightarrow 2 \rightarrow \dots$, following the last port being used in case UCM6302, is used.
	• Descend
	When the call goes out from this analog trunk, it will always try to use the last idle FXO port. The port order that the call will use to go
	out if UCM6302 is used would be port 2 \rightarrow port 1. Every time it will start with port 2 (if it is idle).
	The default setting is "Ascend" mode.
	The Non-Linear Processing (NLP) in echo cancellation helps to remove/suppress residual echo components that could not be removed
	by the LEC (Line Echo Canceller). Following modes are supported:
	• Default: The NLP limits the signal level to the background noise level when active, and the background noise level adjustment is
Echo	low.
Cancellation	• High Noise Level Adjustment: The NLP limits the signal level to the background noise level when active, and the background
Mode	noise level adjustment is high.
	• Noise Masking : The NLP sends sign noise when active, and the background noise level adjustment is high.

	the background noise level adjustment is high.
	Allows external numbers the option to get directed to the extension that last called them.
Direct Callback	For Example, User 2002 has dialed external number 061234575 but they were not reachable, once they have received missed call notification on their phone, they would mostly call back the number, if the option "Direct Callback" is enabled then they will be directly bridged to user 2002 regardless of the configured inbound destination.
Tone Settings	

• White Noise Injection: The NLP injects white noise when active. The level corresponds to the background noise level at Sin, and

Busy Detection	Busy Detection is used to detect far-end Hangup or for detecting busy signal. The default setting is "Yes".
Busy Tone Count	If "Busy Detection" is enabled, users can specify the number of busy tones to be played before hanging up. The default setting is 2. Better results might be achieved if set to 4, 6, or even 8. Please note that the higher the number is, the more time is needed to Hangup the channel. However, this might lower the probability to get a random Hangup.
Congestion Detection	Congestion detection is used to detect far-end congestion signal. The default setting is "Yes".
Congestion Count	If "Congestion Detection" is enabled, users can specify the number of congestion tones to wait for. The default setting is 2.
Tone Country	Select the country for tone settings. If "Custom" is selected, users could manually configure the values for Busy Tone and Congestion Tone. The default setting is "United States of America (USA)".
	Syntax:
	f1=val[@level]],f2=val[@level]],c=on1/off1[-on2/off2[-on3/off3]];
	Frequencies are in Hz and cadence on and off are in ms.
	Frequencies Range: [0, 4000)
Busy Tone	Busy Level Range: (-300, 0)
	Cadence Range: [0, 16383].
	Select Tone Country "Custom" to manually configure Busy Tone value.
	Default value:
	f1=480@-50,f2=620@-50,c=500/500
	Syntax:
	f1=val[@level]],f2=val[@level]],c=on1/off1[-on2/off2[-on3/off3]];
	Frequencies are in Hz and cadence on and off are in ms.

Frequencies Range: [0, 4000)

Congestion

Tone

Busy Level Range: (-300, 0)

Cadence Range: [0, 16383].

Select Tone Country "Custom" to manually configure Busy Tone value.

Default value:

f1=480@-50,f2=620@-50,c=250/250

PSTN	Click on "Detect" to detect the busy tone, Polarity Reversal, and Current Disconnect by PSTN. Before the detection, please make sure
Detection	there is more than one channel configured and working properly. If the detection has a busy tone, the "Tone Country" option will be set
Detection	as "Custom".

Table 58: Analog Trunk Configuration Parameters

PSTN Detection

The UCM630X provides a PSTN detection function to help users detect the busy tone, Polarity Reversal, and Current Disconnect by making a call from the PSTN line to another destination. The detecting call will be answered and up for about 1 minute. Once done, the detecting result will show and can be used for the UCM630X settings.

1. Go to UCM630X Web GUI→Extension/Trunk→Analog Trunks page.

- 2. Click to edit the analog trunk created for the FXO port.
- 3. In the window to edit the analog trunk, go to the "Tone Settings" section and there are two methods to set the busy tone.
- Tone Country. The default setting is "United States of America (USA)".

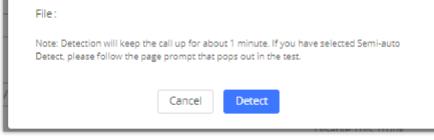
• PSTN Detection.

Tone Settings			
Busy Detection:		* Busy Tone Count :	2
Congestion Detection:		* Congestion Count:	2
* Tone Country:	United States of America (USA) \vee	* Busy Tone :	f1=480@-50,f2=620@-50,c=500/500
* Congestion Tone Settings :	f1=480@-50,f2=620@-50,c=250/250	PSTN Detection:	Detect

UCM630X FXO Tone Settings

4. Click on "Detect" to start PSTN detection.

PSTN Detection		×
Detect model :	Auto Detect ~	
Source Channel (to be detected):	1 ~	
Destination Channel:	1 ~	
* Destination Number:		
Dump Call Progress Ton	e	



UCM630X PSTN Detection

If there are two FXO ports connected to PSTN lines, use the following settings for auto-detection.

• **Detect Model**: Auto Detect.

• **Source Channel**: The source channel to be detected.

• **Destination Channel**: The channel to help detect. For example, the second FXO port.

• Destination Number: The number to be dialed for detecting. This number must be the actual PSTN number for the FXO port used as the destination

channel.

PSTN Detection	×	
Detect model :	Auto Detect ~	
Source Channel (to be detected):	1 ×	
Destination Channel:	2 ~	
* Destination Number:	123654	
Dump Call Progress Ton File :	e	
	e call up for about 1 minute. If you have selected Semi-auto ge prompt that pops out in the test.	
	Cancel Detect	

UCM630X PSTN Detection: Auto-Detect

If there is only one FXO port connected to the PSTN line, use the following settings for auto-detection.

PSTN Detection		×
Detect model :	Semi-auto Detect v	
Source Channel (to be detected):		
* Destination Number:	123654	
Dump Call Progress Ton File :	e	
	e call up for about 1 minute. If you have selected Semi-aut ge prompt that pops out in the test.	10
	Cancel Detect	

UCM630X PSTN Detection: Semi-Auto Detect

- Detect Model: Semi-auto Detect.
- Source Channel: The source channel to be detected.
- **Destination Number**: The number to be dialed for detecting. This number could be a cell phone number or another PSTN number that can be reached from the source channel PSTN number.
- 5. Click "Detect" to start detecting. The source channel will initiate a call to the destination number. For "Auto Detect", the call will be automatically

answered. For "Semi-auto Detect", the UCM630X Web GUI will display a prompt to notify the user to answer or hang up the call to finish the detecting process.

6. Once done, the detected result will show. Users could save the detecting result as the current UCM630X settings.

 Detect Model
 Select "Auto Detect" or "Semi-auto Detect" for PSTN detection.

 • Auto-Detect:
 Please make sure two or more channels are connected to the UCM630X and in idle status before starting the detection. During the detection, one channel will be used as the caller (Source Channel) and another channel will be used as a callee (Destination Channel). The UCM630X will control the call to be established and hang up between caller and callee to finish the detection.

	• Semi-auto Detect: Semi-auto detection requires answering or hanging up the call manually. Please make sure one channel is connected to the UCM630X and in idle status before starting the detection. During the detection, the source-channel will be used as a caller and send the call to the configured Destination Number. Users will then need to follow the prompts in Web GUI to help finish the detection.
	The default setting is "Auto Detect".
Source Channel	Select the channel to be detected.
Destination Channel	Select the channel to help detect when "Auto Detect" is used.
Destination Number	Configure the number to be called to help the detection.
Dump Call Progress Tone File	Choose whether to save the calling tone file, it is not checked by default.

Table 59: PSTN Detection for Analog Trunk

0

- The PSTN detection process will keep the call up for about 1 minute.
- If "Semi-auto Detect' is used, please pick up the call only after being informed from the Web GUI prompt.
- Once the detection is successful, the detected parameters "Busy Tone", "Polarity Reversal" and "Current Disconnect by PSTN" will be filled into the corresponding fields in the analog trunk configuration.

VOIP TRUNKS

VoIP Trunk Configuration

VoIP trunks can be configured in UCM630X under Web GUI→Extension/Trunk→VoIP Trunks. Once created, the VoIP trunks will be listed with Provider Name, Type, Hostname/IP, Username, and Options to edit/detect the trunk.

- Click on "Add SIP Trunk" or "Add IAX Trunk" to add a new VoIP trunk.
- Click on in to configure detailed parameters for the VoIP trunk.
- Click on 🖤 to configure Direct Outward Dialing (DOD) for the SIP Trunk.
- Click on *one to start LDAP Sync.*
- Click on 💼 to delete the VoIP trunk.

The VoIP trunk options are listed in the table below.

Туре	Select the VoIP trunk type. Peer SIP Trunk Register SIP Trunk
Provider Name	Configure a unique label (up to 64 characters) to identify this trunk when listed in outbound rules, inbound rules, etc.
Host Name	Configure the IP address or URL for the VoIP provider's server of the trunk.

Transport	Configure the SIP Transport method. Using TCP requires local TCP support. Using TLS Requires local TLS support. • UDP • TCP • TLS
Auto Record	If enabled, calls handled with this extension/trunk will automatically be recorded.
Keep Original CID	Keep the CID from the inbound call when dialing out. This setting will override the "Keep Trunk CID" option. Please make sure that the peer PBX at the other side supports to match user entry using the "username" field from the authentication line.
Keep Trunk CID	If enabled, the trunk CID will not be overridden by the extension's CID when the extension has CID configured. The default setting is "No".
NAT	Turn on this setting when the PBX is using public IP and communicating with devices behind NAT. If there is a one-way audio issue, usually it is related to NAT configuration or SIP/RTP port support on the firewall.
Disable This Trunk	If checked, the trunk will be disabled. Note: If a current SIP trunk is disabled, UCM will send UNREGISTER message (REGISTER message with expires=0) to the SIP provider.
TEL URI	If the trunk has an assigned PSTN telephone number, this field should be set to "User=Phone". Then a "User=Phone" parameter will be attached to the Request-Line and TO header in the SIP request to indicate the E.164 number. If set to "Enable", "Tel:" will be used instead of "SIP:" in the SIP request. The default setting is disabled.
Caller ID Number	 Configure the Caller ID. This is the number that the trunk will try to use when making outbound calls. For some providers, it might not be possible to set the CallerID with this option and this option will be ignored. Important Note: When making outgoing calls, the following priority order rule will be used to determine which CallerID will be set before sending out the call: From the user (Register Trunk Only) → CID from inbound call (Keep Original CID Enabled) → Trunk Username/CallerID (Keep Trunk CID Enabled) → DOD → Extension CallerID Number → Trunk Username/CallerID (Keep Trunk CID Disabled) → Global Outbound CID.
CallerID Name	Configure the new name of the caller when the extension has no CallerID Name configured.
Auto Record	If enabled, calls handled with this extension/trunk will automatically be recorded.
Auth ID	Enter the Authentication ID for the "Register SIP Trunk" type.
Direct Callback	Allows external numbers the option to get directed to the extension that last called them. For Example, User 2002 has dialed external number 061234575 but they were not reachable, once they have received missed call notification on their phone, they would mostly call back the number, if the option "Direct Callback" is enabled then they will be directly bridged to user 2002 regardless of the configured inbound destination.
RemoteConnect Mode	If enabled, the RemoteConnect related parameters will be set synchronously. Please make sure the trunk host is allocated by GDMS or supports TLS.

Limit Concurrent Calls	If enabled and when the number of concurrent calls exceeds any trunk's configured concurrent call thresholds, an alarm notification will be generated. Note: Please make sure the system alert event "Trunk Concurrent Calls" is enabled.
Concurrent Call Threshold	Threshold of all incoming and outgoing concurrent calls through this trunk.
Outgoing Concurrent Calls Threshold	Threshold of all outgoing concurrent calls passing through this trunk.
Incoming Concurrent Calls Threshold	Threshold of all incoming concurrent calls passing through this trunk.
Total Time Limit For Outbound Calls	
Enable Total Time Limit For Outgoing Calls	When this setting is activated, the user can set a time limit before calls cannot be initiated through this trunk
	This setting defines how long until the time allowed for outgoing calls is reset.
Period	 Monthly: The time allowed will reset every month. Quarterly: The time allowed will reset every 3 months. Example: If the time limit has been set to 4320 minutes, the allowed time will always revert back to 4320 after a month or 3 month based on the period configured.
Total Time	Total time allowed in minutes

SIP Peer Trunk

SIP Register Trunk

Basic Settings	
Provider Name	Configure a unique label to identify this trunk when listed in outbound rules, inbound rules, etc.
Host Name	Configure the IP address or URL for the VoIP provider's server of the trunk.
Auto Record	Enable automatic recording for the calls using this trunk (for SIP trunk only). The default setting is disabled. The recording files can be accessed under Web GUI \rightarrow CDR \rightarrow Recording Files.
Keep Original CID	Keep the CID from the inbound call when dialing out, this setting will override the "Keep Trunk CID" option. Please make sure that the peer PBX at the other side supports to match user entry using the "username" field from the authentication line.
Keep Trunk CID	If enabled, the trunk CID will not be overridden by the extension's CID when the extension has CID configured. The default setting is "No".
NAT	Turn on this option when the PBX is using public IP and communicating with devices behind NAT. If there is a one-way audio issue, usually it is related to NAT configuration or SIP/RTP port configuration on the firewall.

Disable This Trunk	If selected, the trunk will be disabled. Note : If a current SIP trunk is disabled, UCM will send UNREGISTER message (REGISTER message with expires=0) to the SIP provider.
TEL URI	If the trunk has an assigned PSTN telephone number, this field should be set to "User=Phone". Then a "User=Phone" parameter will be attached to the Request-Line and TO header in the SIP request to indicate the E.164 number. If set to "Enable", "Tel:" will be used instead of "SIP:" in the SIP request. The default setting is disabled.
Caller ID Number	 Configure the Caller ID. This is the number that the trunk will try to use when making outbound calls. For some providers, it might not be possible to set the CallerID with this option and this option will be ignored. Important Note: When making outgoing calls, the following priority order rule will be used to determine which CallerID will be set before sending out the call: CID from inbound call (<i>Keep Original CID Enabled</i>) → Trunk Username/CallerID (<i>Keep Trunk CID Enabled</i>) → DOD → Extension CallerID Number → Trunk Username/CallerID (<i>Keep Trunk CID Disabled</i>) → Global Outbound CID.
CallerID Name	Configure the name of the caller to be displayed when the extension has no CallerID Name configured.
Transport	 Configure the SIP transport protocol to be used in this trunk. The default setting is "UDP". UDP TCP TLS
RemoteConnect Mode	If enabled, the RemoteConnect related parameters will be set synchronously. Please make the trunk host is allocated by GDMS or it supports TLS.
Direct Callback	Allows external numbers the option to get directed to the extension that last called them. For Example, User 2002 has dialed external number 061234575 but they were not reachable, once they have received missed call notification on their phone, they would mostly call back the number, if the option "Direct Callback" is enabled then they will be directly bridged to user 2002 regardless of the configured inbound destination.
Advanced Settings	
Codec Preference	Select audio and video codec for the VoIP trunk. The available codecs are: PCMU, PCMA, GSM, AAL2-G.726-32, G.726, G.722, G.729, G.723, iLBC, ADPCM, H.264, H.263, H.263p and VP8.
Packet Loss Retransmission	Configure to enable Packet Loss Retransmission.
Audio FEC	Configure to enable Forward Error Correction (FEC) for audio.
Video FEC	Configure to enable Forward Error Correction (FEC) for video.
ICE Support	Toggles ICE support. For peer trunks, ICE support will need to be enabled on the other end.
TURN Relay	TURN servers are used for media NAT traversal and will be prioritized if ICE is also enabled.

FECC	Configure to enable Far-end Camera Control
Silence Suppression	If enabled, the UCM will send CN packets for silence suppression after a successful CN negotiation in the SIP SDP. If the client endpoint's OPUS codec supports the reception of DTX packets, the UCM will send DTX packets instead.
SRTP	Enable SRTP for the VoIP trunk. The default setting is "No".
SRTP Crypto Suite	SRTP encryption suite used by UCM for outbound calls. Priority is based on order of configuration.
IPVT Mode	Similar to Enable Direct Media. The PBX will attempt to redirect the RTP media streams to bypass the PBX and to go directly between caller and callee. Primarily for use with trunks to IPVT.
Enable T.38 UDPTL	Enable or disable T.38 UDPTL support.
Special attributes	Carry the ssrc/msid/mid/ct/as/tias/record properties of the SDP. These attributes may cause incompatibility when interconnecting with other devices.
Send PPI Header	If checked, the invite message sent to trunks will contain PPI (P-Preferred-Identity) Header.
Send PAI Header	If checked, the INVITE, 18x and 200 SIP messages sent to trunks will contain P-Asserted-Identity (PAI) header. It is not possible to send both PPI and PAI headers.
DOD as From Name	If enabled and "From User" is configured, the INVITE's From header will contain the DOD number.
Passthrough PAI Header	If enabled and "Send PAI Header" is disabled, PAI headers will be preserved as calls pass through the UCM.
Send PANI Header	If checked, the INVITE and REGISTER sent to the trunk will contain P-Access-Network-Info header.
Send Anonymous	If checked, the "From" header in outgoing INVITE message will be set to anonymous.
Outbound Proxy Support	Enable to send outbound signal to the proxy instead of the devices directly.
DID Mode	Configure to obtain the destination ID of an incoming SIP call from SIP Request-line or To header.
GIN Registration	If enabled, the UCM will send a GIN REGISTER (generate implicit numbers).
	Configure the mode for sending the DTMF.
	• RFC4833 (default): DTMF is transmitted as audio in the RTP stream but is encoded separately from the audio stream. Backwards-compatible with RFC2833.
DTMF Mode	• DTMF is transmitted as audio and is included in the audio stream. Requires alaw/ulaw codecs
	 Info: DTMF is transmitted separately from the media streams. RFC4733_info: DTMF is transmitted through both RFC4733 and SIP INFO
	 KFC4735_Info: DTMF is transmitted through both KFC4733 and SIP INFO Auto: DTMF mode will be negotiated with the remote peer, only supports RFC4733 and inband. RFC4733 will be used by default unless the remote peer does not indicate support.

Enable Heartbeat detection	If enabled, the PBX will regularly send SIP OPTIONS to check if the device is online.
The Maximum Number of Call Lines	The number of current outgoing calls over the trunk at the same time. The default value 0 means no limit.
Sync LDAP Enable	 Automatically sync local LDAP phonebooks to a remote peer (SIP peer trunk only). To ensure successful syncing, the remote peer must also enable this service and set the same password as the local UCM. Port 873 is used by default. Sync LDAP Password: Password used for LDAP phonebook encryption and decryption. The password must be the same for both peers to ensure successful syncing. LDAP Outbound Rule: Specify an outbound rule. The PBX system will automatically modify the remote contacts by adding prefix parsed from this rule. LDAP Dialed Prefix: System will automatically modify the remote contacts by adding this prefix LDAP Sync Method: Specifies the sync method of the UCM. When an LDAP sync request is received, the UCM will send the phonebook data via the specified method. LDAP Last Sync Date: The last successful sync date.
STIR/SHAKEN	 Block Spam Calls. Disabled: Disable STIR/SHAKEN. Outgoing Attest: Enable STIR/SHAKEN attestation for outgoing calls. Incoming Verify: Enable STIR/SHAKEN verification for incoming calls. Both: Enable STIR/SHAKEN for both outgoing and incoming calls
Enable CC	Check this box to allow the system to automatically alert this extension when a called party is available, given that a previous call to that party failed for some reason. If the Call Waiting is disabled, the CC service will take effect only for unanswered and timeout calls.

Туре	 Select the VoIP trunk type. Peer IAX Trunk Register IAX Trunk
Provider Name	Configure a unique label to identify this trunk when listed in outbound rules, inbound rules, etc.
Host Name	Configure the IP address or URL for the VoIP provider's server of the trunk.
Keep Trunk CID	If enabled, the trunk CID will not be overridden by the extension's CID when the extension has CID configured. The default setting is "No".
Username	Enter the username to register to the trunk from the provider when the "Register IAX Trunk" type is selected.
Password	Enter the password to register to the trunk from the provider when the "Register IAX Trunk" type is selected.
Disable This Trunk	If selected, the trunk will be disabled.

Caller ID Number	The number that the trunk will try to use when making outbound calls. CID priority from highest to lowest is as follows: From User (register trunk only) >>> Inbound Call CID (if Keep Original CID is enabled and the call is originally from another trunk) >>> Trunk CID (Keep Trunk CID enabled) >>> DOD CID >>> Extension CID >>> Register Trunk Username (Keep Trunk CID disabled) >>> Global Outbound CID. Note 1: Certain providers may ignore this CID. Note 2: If this CID contains an asterisk (*), call recordings from this trunk might be lost when saving them to NAS storage.
CallerID Name	Configure the new name of the caller when the extension has no CallerID Name configured.

Table 63: Create New IAX Trunk

IAX Peer Trunk

IAX Register Trunk

Basic Settings	
Provider Name	Configure a unique label to identify this trunk when listed in outbound rules, inbound rules, etc.
Host Name	Configure the IP address or URL for the VoIP provider's server of the trunk.
Keep Trunk CID	If enabled, the trunk CID will not be overridden by the extension's CID when the extension has CID configured. The default setting is "No".
Disable This Trunk	If selected, the trunk will be disabled.
Caller ID	 Configure the Caller ID. This is the number that the trunk will try to use when making outbound calls. For some providers, it might not be possible to set the CallerID with this option and this option will be ignored. Important Note: When making outgoing calls, the following priority order rule will be used to determine which CallerID will be set before sending out the call. From the user (Register Trunk Only) → CID from inbound call (Keep Original CID Enabled) → Trunk Username/CallerID (Keep Trunk CID Enabled) → DOD → Extension CallerID Number → Trunk Username/CallerID (Keep Trunk CID Disabled) → Global Outbound CID.
CallerID Name	Configure the name of the caller to be displayed when the extension has no CallerID Name configured.
Username	Enter the username to register to the trunk from the provider.
Password	Enter the password to register to the trunk from the provider.
Advanced Settings	
Codec Preference	Select audio and video codec for the VoIP trunk. The available codecs are: PCMU, PCMA, GSM, AAL2-G.726-32, G.726, G.722, G.729, G.723, iLBC, ADPCM, H.264, H.263, H.263p and VP8.
Enable Heartbeat Detection	If enabled, the UCM630X will regularly send SIP OPTIONS to the device to check if the device is still online. The default setting is "No".

Heartbeat Frequency	When the "Enable Heartbeat Detection" option is set to "Yes", configure the interval (in seconds) of the SIP OPTIONS message sent to the device to check if the device is still online. The default setting is 60 seconds.	
Maximum Number of Call Lines	The maximum number of concurrent calls using the trunk. The default setting is 0, which means no limit.	

Trunk Groups

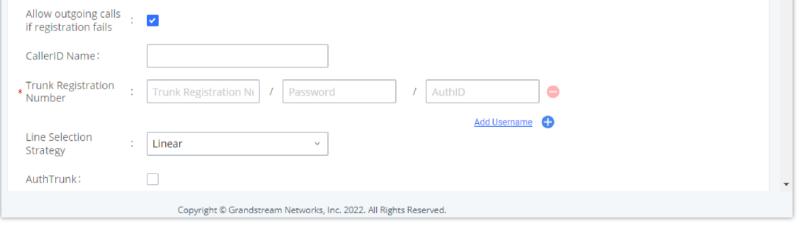
Users can create VoIP Trunk Groups to register and easily apply the same settings on multiple accounts within the same SIP server. This can drastically reduce the amount of time needed to manage accounts for the same server and improve the overall cleanliness of the web UI.

VoIP Trunks				
VoIP Trunks	Trunk Group			
+ Add Trunk Gro	oup			
NAME \$	TERMINAL TYPE	HOSTNAME/IP 👙	USERNAME	OPTIONS
		No Data		

Trunk Group

Once creating the new trunk group and configuring the SIP settings, users can add multiple accounts within the configured SIP server by pressing the \oplus button and configuring the username, password, and authentication ID fields.

Create New Trunk Group Cancel Save			Save	
	eric IP address, but the port number is p rt number, the UCM will do an SRV reco	resent in the URI, the UCM performs an A or AAAA record lookup of the domain nan rd lookup.	ne. If a domain is	
Type:	Register SIP Trunk	~		
* Provider Name :	Please select a provider			
* Host Name :				
Transport:	UDP	~		
Keep Original CID :				
Keep Trunk CID:				
NAT:				
Disable This Trunk:				
TEL URI:	Disabled	~		
Need Registration:				



Trunk Group Configuration

Туре	Register Trunk
------	----------------

Provider Name	Configure a unique label to identify the trunk when listed in outbound rules and incoming rules.
Host Name	Enter the IP address or hostname of the VoIP provider's server.
Transport	Configure the SIP Transport method. Using TCP requires local TCP support; using TLS requires local TLS support.
Keep Original CID	Keep CID from the inbound call when dialing out even if option "Keep Trunk CID" is enabled. Please make sure the peer PBX at the other end supports matching user entry using the "username" field from the authentication line.
Keep Trunk CID	Always use trunk CID if specified even if extension has DOD number or CID configured.
NAT	Enable this setting if the UCM is using public IP and communicating with devices behind NAT. Note 1: This setting will overwrite the Contact header of received messages, which may affect the ability to establish calls when behind NAT. Consider changing settings in PBX Settings \rightarrow SIP Settings \rightarrow NAT instead.
Disable This Trunk	Check this box to disable this trunk
TEL URI	if "Enabled" option is selected, TEL URI and remove OBP from Route cannot be enabled at the same time. If the phone has an assigned PSTN telephone number, this field should be set to "User=Phone". A "User=Phone" parameter will the be attached to the Request-Line and "TO" header in the SIP request to indicate the E.164 number. If set to "Enable", "Tel:" will be used instead of "SIP:" in the SIP request.
Need Registration	Whether to register on the external server.
Allow outgoing calls if registration fails	Uncheck to block outgoing cakks if registration fails. If "Need Registration" option is unchecked, this settting will be ignored.
CallerID Name	To display the caller ID name of the trunk, you must configure the caller ID number of the trunk.
Trunk Registration Number	The number used to register with the provider server, and the VoIP provider will authenticate the number based on the trunk registration number.
Line Selection Strategy	Linear: Select lines in list order and make Outbound calls. Round Robin: Rotary line selection with memory and making Outboun calls.
AuthTrunk	If enabled, the UCM will send a 401 response to the incming call to authenticate the trunk.

Auto Record	If enabled, calls handled with this extension/trunk will automatically be recorded.	
Direct Callback Allows external numbers the option to get directed to the extension that last called them.		
RemoteConnect Mode	If enabled, RemoteConnect-related options will be automatically configured. Please confirm the trunk has a GDMS-assigned address or supports TLS.	
Monitor Concurrent Calls	If enabled, the number of concurrent calls on this trunk will be monitored. If the "Trunk Concurrent Calls" system alert is enabled, alert notifications will be generated if the number of concurrent calls exceeds this trunk's configured concurrent call thresholds.	

Concurrent Call Threshold Threshold of all incoming and outgoing concurrent calls in this trunk.		
Outgoing Concurrent Call Threshold	Threshold of all outgoing concurrent calls passing through this trunk.	
Incoming Concurrent Call Threshold	Threshold of all incoming concurrent calls passing through this trunk.	
Enable Total Time Limit For Outbound Calls	If enabled, a limit will be placed on the cumulative duration of outbound calls within a specific period. Once this limit has been reached, further outbound calls from this trunk will not be allowed.	

Direct Outward Dialing (DOD)

The UCM630X provides Direct Outward Dialing (DOD), which is a service of a local phone company (or local exchange carrier) that allows subscribers within a company's PBX system to connect to outside lines directly.

Example of how DOD is used:

Company ABC has a SIP trunk. This SIP trunk has 4 DIDs associated with it. The main number of the office is routed to an auto attendant. The other three numbers are direct lines to specific users of the company. Now when a user makes an outbound call their caller ID shows up as the main office number. This poses a problem, as the CEO would like their calls to come from their direct line. This can be accomplished by configuring DOD for the CEO's extension.

Steps to configure DOD on the UCM630X:

- 1. To setup DOD go to UCM630X Web GUI→Extension/Trunk→VoIP Trunks page.
- 2. Click to access the DOD options for the selected SIP Trunk.
- 3. Click "Add DOD" to begin your DOD setup
- 4. Enter a SIP trunk DID number in the "DOD number" field. In this example, ABC company has a total of 4 DID numbers. Enter the phone number used by the CEO here.
- 5. When adding extensions, you can choose whether to "Enable Strip" according to your needs. If it is enabled, you can configure the number (0-64) that will be stripped from the extension number before being added to the DOD number. For example, if the entered digit is 2, and the DOD number for extension 4002 is 1122, then dialing out from 4002, 112202 will be used as the caller ID (DOD).
- 6. Select an extension from the "Available Extensions" list. Users have the option of selecting more than one extension. In this case, Company ABC would select the CEO's extension. After making the selection, click on the button to move the extension(s) to the "Selected Extensions" list.

Create DC	D		×
* DOD Nu	umber:		
DOD Na	ame:		
Add Ext	ension :		
Enable !	Strip :		
* Strip :		0	
	26 items	Available 0 item Selected	
	Search	Q Search Q	
	1000		
	1001	<	
	1002	> None	
	1003		
	1004 "Calvin"	•	
		Cancel Save	

DOD extension selection

7. Click "Save" at the bottom.

Once completed, the user will return to the **EDIT DOD** page that shows all the extensions that are associated with a particular DOD.

Edit DOD

: Add a DOD.

: Import DODs using a csv file.

: Export the DODs using a csv file.

: Filter DODs by number or name.

For DOD importing, please refer to the screenshot below for the template used.

DOD CSV file Template

WebRTC Trunks

WebRTC, Web Real-Time Communication, is a real time audio/video chatting framework that allows real-time audio/video chatting through the web browser. WebRTC usually does not refer to the web application itself but to the set of protocols and practices bundled with a graphical interface. Our UCM63xx supports creating WebRTC trunks to use exclusively with web application, this allows the users to join calls and meetings just by clicking a link to a web page.

Below is a figure that shows the options to configure when setting up this feature:

Trunk Name	Create a unique label to easily identify the trunk for inbound route configuration.	
Disable This Trunk	Check this box to disable this trunk.	
Auto Record	If enabled, calls handled with this extension/trunk will automatically be recorded.	
Jitter Buffer	 Select jitter buffer method for temporary accounts such as meeting participants who joined via link. Disable: Jitter buffer will not be used. Fixed: Jitter buffer with a fixed size (equal to the value of "Jitter Buffer Size") Adaptive: Jitter buffer with a adaptive size that will not exceed the value of "Max Jitter Buffer"). NetEQ: Dynamic jitter buffer via NetEQ. 	
Monitor Concurrent Calls	If enabled, the number of concurrent calls on this trunk will be monitored. If the "Trunk Concurrent Calls" system alert is enabled, alert notifications will be generated if the number of concurrent calls exceeds this trunk's configured concurrent call thresholds.	
Incoming Concurrent Call Threshold	Threshold of all incoming concurrent calls passing through this trunk.	

Address	can also enter this link in the browser address bar to directly access and test WebRTC calls.
WebRTC Inbound Link	This link can be embedded onto a web page. Clicking the link will connect to a pre-configured WebRTC trunk destination. You

U Important Note

Please note that in order to use WebRTC Trunk feature, the UCM must have a paid RemoteConnect plan. For more information, please refer to the following link: https://ucmrc.gdms.cloud/plans

SLA STATION

The UCM630X supports SLA (Shared Line Appearance) that allows mapping the key with LED on a multi-line phone to different external lines. When there is an incoming call and the phone starts to ring, the LED on the key will flash in red and the call can be picked up by pressing this key. This allows users to know if the line is occupied or not. The SLA function on the UCM630X is like BLF but SLA is used to monitor external lines, i.e., analog trunk on the UCM630X. Users could configure the phone with BLF mode on the MPK to monitor the analog trunk status or press the line key pick-up call from the analog trunk on the UCM630X.

Create/Edit Shared Line Appearance Station

Shared Line Appearance Station can be configured on Web GUI→Extension/Trunk→SLA Station.

SLA Station			
+ Add 🗊 Delete			
STATION NAME \$	STATION \$	ASSOCIATED SLA TRUNKS 💠	OPTIONS
FX01	1000	test	2 💼
	< 1 >		Total: 1 10 / page > Goto 1

SLA Station

• Click on to add an Shared Line Appearance Station.

• Click on to edit the Shared Line Appearance Station. The following table shows the SLA Station configuration parameters.

• Click on to delete the Shared Line Appearance Station.

Station Name	Configure a name to identify the SLA Station.
Station	Specify a SIP extension as a station that will be using SLA.
Available SLA Trunks	Existing Analog Trunks with SLA Mode enabled will be listed here.
Associated SLA Trunks	Select a trunk for this SLA from the Available SLA Trunks list. Click on to arrange the order. If there are multiple trunks selected, when there are calls on those trunks at the same time, pressing the LINE key on the phone will pick up the call on the first trunk here.
SLA Station Options	

Ring	Configure the time (in seconds) to ring the station before the call is considered unanswered. No timeout is set by default. If set to 0, there
Timeout	will be no timeout.
Ring Delay	Configure the time (in seconds) for a delay before ringing the station when a call first comes in on the shared line. No delay is set by default. If set to 0, there will be no delay.
Hold Access	This option defines the competence of the hold action for one particular trunk. If set to "open", any station could hold a call on that trunk or resume one held session; if set to "private", only the station that places the trunk call on hold could resume the session. The default setting is "open".

Table 66: SLA Station Configuration Parameters

Sample Configuration

On the UCM630X, go to Web GUI→Extension/Trunk→Analog Trunks page. Create an analog trunk or edit the existing analog trunk. Make sure "SLA Mode" is enabled for the analog trunk. Once enabled, this analog trunk will be only available for the SLA stations created under Web GUI→Extension/Trunk→SLA Station page.

Enable SLA Mode for Analog Trunk

2. Click on "Save". The analog trunk will be listed with trunk mode "SLA".

3. On the UCM630X, go to Web GUI→Extension/Trunk→SLA Station page, click on "Add". Please refer to section [Create/Edit SLA Station] for the configuration parameters. Users can create one or more SLA stations to monitor the analog trunk. The following figure shows station 1005 associated with FXO1 trunk.

SLA Station				
+ Add 🗊 Delete				
STATION NAME \$	STATION \$	ASSOCIATED SLA TRUNKS 🌲	OPTIONS	
FXO1	1005	fxo1	C 💼	* *
		Total: 1	10 / page 🗸 🛛 Goto	

SLA Example – SLA Station

SLA Example -SLA Created

4. On the SIP phone 2, configure to register UCM630X extension 1005. Configure the MPK as BLF mode and the value must be set to

"extension_trunkname", which is 1005_fxo1 in this case.

	Mode	Account	Description	Value
MPK 1	Busy Lamp Field (BLF)	V Account 2 V	1005_fxo1	1005_fxo1

SLA Example – MPK Configuration

Now the SLA station is ready to use. The following functions can be achieved by this configuration.

• Making an outbound call from the station/extension, using LINE key

When the extension is in an idle state, press the line key for this extension on the phone to off-hook. Then dial the station's extension number, for example,

dial 1002 on phone 1 (or dial 1005 on phone 2), to hear the dial tone. Then the users could dial an external number for the outbound call.

• Making an outbound call from the station/extension, using the BLF key

When the extension is in an idle state (BLF is lit in green), press the MPK and users could dial external numbers directly.

• Answering call using LINE key

When the station is ringing (BLF is blinking in red), press the LINE key to answer the incoming call.

• Barging-in active call using BLF key

When there is an active call between an SLA station and an external number using the SLA trunk, other SLA stations monitoring the same trunk could join the call by pressing the BLF key if "Barge Allowed" is enabled for the analog trunk.

• Hold/UnHold using BLF key

If the external line is previously put on hold by an SLA station, another station that monitors the same SLA trunk could UnHold the call by pressing the BLF key if "Hold Access" is set to "open" on the analog trunk and the SLA station.

CALL ROUTES

Outbound Routes

In the following sections, we will discuss the steps and parameters used to configure and manage outbound rules in UCM630X, these rules are the regulating points for all external outgoing calls initiated by the UCM through all types of trunks: SIP, Analog, and Digital.

Configuring Outbound Routes

In the UCM630X, an outgoing calling rule pairs an extension pattern with a trunk used to dial the pattern. This allows different patterns to be dialed through different trunks (e.g., "Local" 7-digit dials through an FXO while "Long distance" 10-digit dials through a low-cost SIP trunk). Users can also set up a failover trunk to be used when the primary trunk fails.

Go to Web GUI→Extension/Trunk→Outbound Routes to add and edit outbound rules.

- Click on + Add to add a new outbound route.
- Click the "Import" button to upload the outgoing route in .CSV format.
- Click the "Export" button to generate outgoing routes in .CSV format.
- Click to edit the outbound route.
- 💼 Click to delete the outbound route.

On the UCM630X, the outbound route priority is based on the "Best matching pattern". For example, the UCM630X has outbound route A with pattern 1xxx and outbound route B with pattern 10xx configured. When dialing 1000 for an outbound call, outbound route B will always be used first. This is because pattern 10xx is a better match than pattern 1xxx. Only when there are multiple outbound routes with the same pattern configured.

Outbound Rule

Name	Configure the name of the calling rule (e.g., local, long_distance, etc.). Letters, digits, _ and - are allowed.

Pattern	 All patterns are prefixed by the "_" character, but please do not enter more than one "_" at the beginning. All patterns can add comments, such as "_pattern /* comment */". In patterns, some characters have special meanings: [12345-9] Any digit in the brackets. In this example, 1,2,3,4,5,6,7,8,9 is allowed. N Any digit from 2-9. Wildcard, matching one or more characters. ! Wildcard, matching zero or more characters immediately. X Any digit from 0-9. Z Any digit from 1-9. Hyphen is to connect characters and it will be ignored. [] Contain special characters ([x], [n], [z]) represent letters x, n, z.
Disable This Route	After creating the outbound route, users can choose to enable and disable it. If the route is disabled, it will not take effect anymore. However, the route settings will remain in UCM. Users can enable it again when it is needed.
Password	Configure the password for users to use this rule when making outbound calls.
Local Country Code	If your local country code is affected by the outbound blacklist, please enter it here to bypass the blacklist.
Call Duration Limit	Enable to configure the maximum duration for the call using this outbound route.
Maximum Call Duration	Configure the maximum duration of the call (in seconds). The default setting is 0, which means no limit.
Warning Time	Configure the warning time for the call using this outbound route. If set to x seconds, the warning tone will be played to the caller when x seconds are left to end the call.
Auto Record	If enabled, calls using this route will automatically be recorded.
Warning Repeat Interval	Configure the warning repeat interval for the call using this outbound route. If set to X seconds, the warning tone will be played every x seconds after the first warning.

PIN Groups	Select a PIN Group
PIN Groups with Privilege Level	If enabled and PIN Groups are used, Privilege Levels and Filter on Source Caller ID will also be applied.

	Select privilege level for the outbound rule.
	• Internal: The lowest level required. All users can use this rule.
	• Local: Users with Local, National, or International levels can use this rule.
Privilege Level	• National: Users with National or International levels can use this rule.
	• International: The highest level required. Only users with the international level can use this rule.
	• Disable: The default setting is "Disable". If selected, only the matched source caller ID will be allowed to use this outbound route.
	Please be aware of the potential security risks when using the "Internal" level, which means all users can use this outbound rule to dial
	out from the trunk.
	When enabled, users could specify extensions allowed to use this outbound route. "Privilege Level" is automatically disabled if using
	"Enable Filter on Source Caller ID".
	The following two methods can be used at the same time to define the extensions as the source caller ID.
	1. Select available extensions/extension groups from the list. This allows users to specify arbitrary single extensions available in the
	PBX.
	2. Custom Dynamic Route: define the pattern for the source caller ID. This allows users to define extension range instead of selecting them one by one.
Enable Filter	 All patterns are prefixed with the "_". Special characters:
on Source	
Caller ID	X: Any Digit from 0-9.
	Z: Any Digit from 1-9.
	N: Any Digit from 2-9.
	".": Wildcard. Match one or more characters.
	":": Wildcard. Match zero or more characters immediately.
	Example: [12345–9] – Any digit from 1 to 9.
	Note: Multiple patterns can be used. Patterns should be separated by a comma ",". Example: _X. , _NNXXNXXXX, _818X.

Outbound Route CID	Attempt to use the configured outbound route CID. This CID will not be used if DOD is configured.
Send This Call	
Through	
Trunk	
Trunk	Select the trunk for this outbound rule.

	Allows the user to specify the number of digits that will be stripped from the beginning of the dialed string before the call is placed via the selected trunk.
Strip	Example:
	The users will dial 9 as the first digit of long-distance calls. However, 9 should not be sent out via analog lines and the PSTN line. In this case, 1 digit should be stripped before the call is placed.
Prepend	Specify the digits to be prepended before the call is placed via the trunk. Those digits will be prepended after the dialing number is stripped.
Use Failover Trunk	
	Failover trunks can be used to make sure that a call goes through an alternate route when the primary trunk is busy or down. If "Use Failover Trunk" is enabled and "Failover trunk" is defined, the calls that cannot be placed via the regular trunk may have a secondary
	trunk to go through.
Failover Trunk	UCM630X supports up to 10 failover trunks.
	Example:
	The user's primary trunk is a VoIP trunk, and the user would like to use the PSTN when the VoIP trunk is not available. The PSTN trunk can be configured as the failover trunk of the VoIP trunk.
	Allows the user to specify the number of digits that will be stripped from the beginning of the dialed string before the call is placed via the selected trunk.
Strip	Example:
	The users will dial 9 as the first digit of long-distance calls. However, 9 should not be sent out via analog lines and the PSTN line. In this case, 1 digit should be stripped before the call is placed.
Prepend	Specify the digits to be prepended before the call is placed via the trunk. Those digits will be prepended after the dialing number is stripped.
Time	
Condition	

	Use Main Trunk or Failover Trunk: Use the Main Trunk and its settings during the configured time conditions. If the main trunk is
Time	unavailable, the Failover Trunk and its settings will be used instead.
Condition	
Mode	Use Specific Trunks: Use specific trunks during the configured time conditions. The Strip and Prepend settings of the Main Trunk will
	be used. If a trunk is unavailable during its time condition, no failover trunks will be used.

Table 67: Outbound Route Configuration Parameters

Inbound Routes

This option controls whether failover trunks will be used if receiving specific responses to outgoing calls.

Failover Trunk Toggles

If a call receives the selected response codes, the UCM will not be redirect it to the call route's failover trunk.

1 Note

Due to the addition of this option, the Enable 486 to Failover Trunks option under *PBX Settings* → *General Settings* page has been removed.

It is possible to specify DOD number based on Outbound Route, as displayed on the screenshot below. For each outbound route.

Outbound Routes	Outbound Routes					
An outgoing calling rule associates an extension pattern with a trunk used to daid the pattern. This allows different pattern to be daied through different trunks. For example, "local" allows 7-digit daied through RIO port while "long distance" allows 10-digit daied through a low-cost SP trunk. A felover trunk can be set up to be used when the primary trunk fails. Note: This panel only manages individual outgoing calling rules.						
+ Add 🔀 Scheduled	d Sync 🛛 🖡 Outbound Blacklist 🛛 🗄	PIN Groups 3 Import 3 Export				
SEQUENCE #	NAME F	PATTERN 0	PRIVILEGE LEVEL 0	OPTIONS		
1	go_out	9x.	Internal	6 4 6 0 0 0		
2	Again_Out	×	Internal	Ľ 🦷 🛢 😣 🖂 🛇		
		1 1		Total 2 10 / page - Goto 1		

Outbound Routes Page

CDOD: go_out					
When both the Outbound route and the Trunk are configured with DOD, the priority is: Outbound route>Trunk.					
Direct Outward Dialing (DOD) is a service of a local phone company or local exchange carrier that allows subscribers within a company's PBX system to connect to outside lines directly.					
+ Add DOD 🕞 Import 🕞 Expo	ort				
DOD \$	DOD NAME \$	EXTENSIONS \$			
369369	first dod	1000 1001 1002			
< DOD: Again_Out					
When both the Outbound route and the Trunk	are configured with DOD, the priority is: Outbound route>Trunk.				
Direct Outward Dialing (DOO) is a service of a k	ocal phone company or local exchange carrier that allows subscribers with	his a company's DBY purtain to connect to outside lines directly			
on eccountral a stating (a cos) is a service of a n		in a company's Pox system to connect to outside intes directly.			
+ Add DOD 3 import 3 Ex	port	in a company's Pax system to connect to outside intes offectly.			
	DOD NAME \$	EXTENSIONS \$			

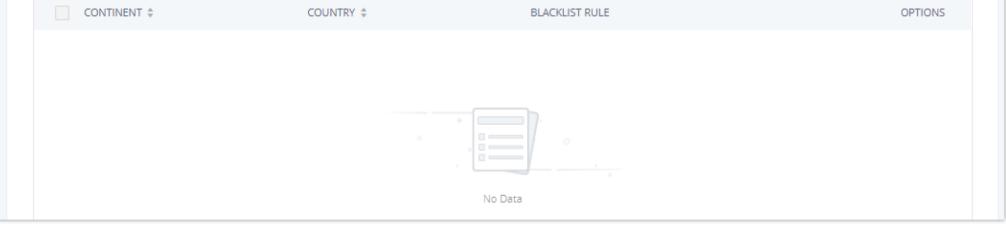
DOD Configuration by Outbound Route

Outbound Blacklist

The UCM630X allows users to configure a blacklist for outbound routes. If the dialing number matches the blacklist numbers or patterns, the outbound call will not be allowed. The outbound blacklist can be configured under UCM Web GUI \rightarrow Extension/Trunk \rightarrow Outbound Routes: Outbound Blacklist.

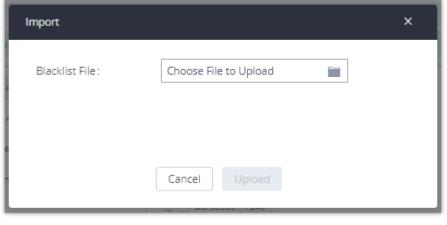
Users can configure numbers, patterns or select country code to add to the blacklist. Please note that the blacklist settings apply to all outbound routes.

outbound Blacklist			
The blacklist (based on C	alleelD) is used for all outbound routes.		
Country Codes:	 North America South America Europe Asia and the Middle East Africa Oceania 	 North America Anguilla 1264 Antigua and Barbuda 1268 Bahamas 1242 Barbados 1246 Bermuda 1441 Canada 1204 1226 1236 1249 *** 	
Blacklist Manage		Add	
Blacklist list	elete 🗘 Import 📮 Export		Q Please enter blacklist number or



Country Codes

Users can export outbound route blacklists and delete all blacklist entries. Additionally, users can also import blacklists for outbound routes.



Blacklist Import/Export

Scheduled Sync

The UCM630X allows users to synchronize the outbound routes, this feature can be found on the Web $GUI \rightarrow Extension/Trunk \rightarrow Outbound Routes \rightarrow Scheduled Sync.$

Scheduled Sync	Enable the Scheduled Sync feature
Server Address	Enter the TFTP server address. For example, "192.168.1.2:69".
File Name	Specify the file name
Sync Time	Enter the sync time (24hr format). The valid range is 0-23.
Sync Frequency	Create new sync every x day(s). The valid range is 1 to 30.

Table 68: Outbound Routes/Scheduled Sync

PIN Groups

The UCM630X supports the pin group. Once this feature is configured, users can apply pin groups to specific outbound routes. When placing a call on pin-

protected outbound routes, the caller will be asked to input the group pin number, this feature can be found on the Web GUI → Extension/Trunk → Outbound

Routes→**PIN** Groups.

Name	Specify the name of the group
Record In CDR	Specify whether to enable/disable record in CDR
PIN Number	Specify the code that will be asked once dialing via a trunk

PIN Name	Specify the name of the PIN

Table 69: Outbound Routes/PIN Group

Once the user clicks **PIN Groups**, the following figure shows to configure the new PIN.

Create New PIN Group	
* Name:	GSEMEA
Record in CDR:	
Members	
* PIN Number :	1596324
∗ PIN Name:	Emily
✓ Save X Cancel	

Create New PIN Group

The following screenshot shows an example of created PIN Groups and members:

< PIN Groups		
+ Add 🔔 U	ad	
NAME \$	RECORD IN CDR 🗢 C	OPTIONS
	yes 🗹 🗹	⊥ 🔟
PIN NUMBER	PIN NAME	
125478963	Dao	
1596324	Emily	
	< 1 > Total: 1 10 / page ∨ Got	ito 1



If PIN group is enabled on outbound route level, password, privilege level and enable the filter on source caller ID will be disabled, unless if you check the option "PIN Groups with Privilege Level" where you can use the PIN Groups and Privilege Level or PIN Groups and Enable Filter on Source Caller ID.

General				
Calling Rule Name:	GStest	Disable This Route :		
* Pattern :	_9.	Privilege Level :	Disable	
		//		
PIN Groups:	GSEMEA ~	PIN Groups with Privile	ege Level:	
Password:				

Outbound PIN

If PIN group CDR is enabled, the call with PIN group information will be displayed as part of CDR under the Account Code field.

ē.	Delete All	Delete Se	earch Result (s)	🛃 Download All Records	🖹 Download Searc	h Result (s)	Automatic Down	nload	
	STATUS \$	CALL FROM \$	CALL TO \$	ACTION TYPE \$	START TIME \$	CALL TIME \$	TALK TIME 单	ACCOUN T CODE \$	RECORDING FILE OPT ONS \$
•	¢.,	5555	99856352 [Tr	DIAL	2019-12-04 10:57:47	0:00:08	0:00:08	Emily/G SEMEA	
	6	1000	*36	DIAL	2019-12-03 10:12:37	0:00:19	0:00:19		

• Importing PIN Groups from CSV files:

Users can also import PIN Groups by uploading CSV files for each group. To do this:

1. Navigate to **Extension/Trunk→Outbound Routes→PIN Groups** and click on the "Upload" button.

< PIN Groups		
+ Add 🕂 Upload		
NAME \$	RECORD IN CDR \$	OPTIONS
▶ GSEMEA	yes	C 🕹 💼
	< 1 >	Total: 1 10 / page × Goto 1

Importing PIN Groups from CSV files

2. Select the CSV file to upload. Incorrect file formats and improperly formatted CSV files will result in error messages such as the one below:

vord and bind Email. X The fo	rmat or coding of CSV files is incorrect.	ge to modify the
Upload		×
Choose file to upload :	Choose file to upload	
	Total: 1 < <u>1</u> >	



3. To ensure a successful import, please follow the format in the sample image below

CSV File Format

- The top-left value (A1) is the PIN Group name. In this case, it is "ALPHA".
- Row 2 contains the labels for the modifiable fields: pin and pin_name. These values should not be changed and will cause an upload error otherwise.
- Rows 3+ contain the user-defined values with Column A holding the PINs and Column B holding the PIN names. PIN values must consist of at least four

digits.

• Once the file is successfully uploaded, the entry will be added to the list of PIN Groups.

< PIN Groups		
+ Add 🕂 Upload		
NAME \$	RECORD IN CDR ≑	OPTIONS
▶ GSEMEA	yes	C 🕹 💼
	< <u>1</u> >	Total: 1 10 / page > Goto 1

CSV File Successful Upload

Inbound Routes

Inbound routes can be configured via Web GUI→Extension/Trunk→Inbound Routes.

- Click on to add a new inbound route.
- Click on "Blacklist" to configure the blacklist for all inbound routes.
- Click on to edit the inbound route.
- Click on to delete the inbound route.

Inbound Rule Configurations

Trunks	Select the trunk to configure the inbound rule.
Inbound Route Name	Configure the name of the Inbound Route. For example, "Local", "LongDistance" etc.
Pattern	All patterns are prefixed with the "_". Special characters: X: Any Digit from 0-9. Z: Any Digit from 1-9. N: Any Digit from 2-9. ".": Wildcard. Match one or more characters. "!": Wildcard. Match zero or more characters immediately. Example: [12345-9] – Any digit from 1 to 9. Notes: Multiple patterns can be used. Each pattern should be entered in a new line. Example: _X. _ NNXXNXXXX /* 10-digit long distance */
Disable This Route	After creating the inbound route, users can choose to enable and disable it. If the route is disabled, it will not take effect anymore. However, the route settings will remain in UCM. Users can enable it again when it is needed.
CID Source	Configures the source of the CID to match with the configured CallerID Pattern. None: CID is not obtained from any source. Only applicable if no CallerID Pattern is configured. DiversionID: CID is obtained from the Diversion header. Only applicable to SIP trunks. CallerID: If the call is from a SIP trunk, the CID is obtained from the From header. Otherwise, the CID will be obtained from other related signaling.
Seamless Transfer Whitelist	Allows the selected extension to use this function. If an extension is busy, and a mobile phone is bound to that extension, the mobile phone can pick up calls to that extension.
Ringback tone	Choose the custom ringback tone to play when the caller reaches the route.
Auto Record	If enabled, calls using this route will automatically be recorded.
Block Collect Call	If enabled, collect calls will be blocked. Note: Collect calls are indicated by the header "P-Asserted-Service-Info: service-code=Backward Collect Call, P-Asserted-Service-Info: service-code=Collect Call".

Alert-Info	Configure the Alert-Info, when UCM receives an INVITE request, the Alert-Info header field specifies an alternative ring tone to the UAS.
Fax Detection	If enabled, fax signals from the trunk during a call will be detected.
Fax Destination	 Configures the destination of faxes. Extension: send the fax to the designated FXS/SIP extension (fax machine) or a FAX extension. Fax to Email: send the fax as an email attachment to the designated extension's email address. If the selected extension does not have an associated email address, it will be sent to the default email address configured in the Call Features->Fax/T.38->Fax Settings page. Note: please make sure the sending email address is correctly configured in System Settings->Email Settings.
Prepend Trunk Name	If enabled, the trunk name will be added to the caller id name as the displayed caller id name.
Set Caller ID Info	Manipulates Caller ID (CID) name and/or number within the call flow to help identify who is calling. When enabled two fields will show allowing to manipulate the CalleID Number and the Caller ID Name.
CallerID Number	 Configure the pattern-matching format to manipulate the numbers of incoming callers or to set a fixed CallerID number for calls that go through this inbound route. \${CALLERID(num)}: Default value which indicates the number of an incoming caller (CID). The CID will not be modified. \${CALLERID(num):n}: Skips the first n characters of a CID number, where n is a number. \${CALLERID(num):-n}: Takes the last n characters of a CID number, where n is a number. \${CALLERID(num):-n}: Takes n characters of a CID number, where n is a number. \${CALLERID(num):s:n}: Takes n characters of a CID number starting from s+1, where n is a number and s is a character position (e.g. \${CALLERID(num):2:7} takes 7 characters after the second character of a CID number). n\${CALLERID(num)}: Prepends n to a CID number, where n is a number.
CallerID Name	The default string is \${CALLERID(name)} , which means the name of an incoming caller, it is a pattern-matching syntax format. A\${CALLERID(name)}B means Prepend a character 'A' and suffix a character 'B' to \${CALLERID(name)} . Not using pattern-matching syntax means setting a fixed name to the incoming caller.
Enable Route-Level Inbound Mode	Gives uses the ability to configure inbound mode per individual route. When enabled two fields will show allowing to set the Inbound mode and the Inbound mode Suffix. Note: Global inbound mode must be enabled before users can configure route-level inbound mode.
Inbound Mode	Choose the inbound mode for this route. Note: Toggling the global inbound mode will not affect routes that have Route-level Inbound Mode enabled. If all routes have the option enabled, toggling the global inbound mode via BLF will trigger a voice prompt indicating that none of the routes will be affected by the global inbound mode change.
Inbound Mode Suffix	Dial "Global Inbound Mode feature code + Inbound Mode Suffix" or a route's assigned suffix to toggle the route's inbound mode. The BLF subscribed to the inbound mode suffix can monitor the current inbound mode.
Inbound Multiple Mode	Multiple mode allows users to switch between destinations of the inbound rule by feature codes. Configure related feature codes as described in [Inbound Route: Multiple Mode]. If this option is enabled, the user can use feature code to switch between different modes/destinations.

CallerID Name Lookup	If enabled, the callerID will be resolved to a name through local LDAP. Note, if a matched name is found, the original callerID name will be replaced. The name lookup is performed before other callerID or callerID name modifiers (e.g., Inbound Route's Set CallerID Info or Prepend Trunk Name). Note: Name lookup may impact system performance.
Dial Trunk	This option shows up only when "By DID" is selected. If enabled, the external users dialing into the trunk via this inbound route can dial outbound calls using the UCM's trunk.
Privilege Level	 This option shows up only when "By DID" is selected. Disable: Only the selected Extensions or Extension Groups are allowed to use this rule when enabled Filter on Source Caller ID. Internal: The lowest level required. All users are allowed to use this rule, checking this level might be risky for security purposes. Local: Users with Local level, National or International level are allowed to use this rule. National: Users with National or International Level are allowed to use this rule. International: The highest level required. Only users with an international level are allowed to use this rule.
Allowed DID Destination	This option shows up only when "By DID" is selected. This controls the destination that can be reached by the external caller via the inbound route. The DID destination is: Extension Conference Call Queue Ring Group Paging/Intercom Groups IVR Voicemail Groups Dial By Name All
Default Destination	Select the default destination for the inbound call. • Extension • Voicemail • Conference Room • Call Queue • Ring Group • Paging/Intercom • Voicemail Group • DISA

Default Destination

• IVR

• External Number

• By DID

When "By DID" is used, the UCM will look for the destination based on the number dialed, which could be local extensions,

conference, call queue, ring group, paging/intercom group, IVR, and voicemail groups as configured in "DID destination". If the dialed number matches the DID pattern, the call will be allowed to go through.

• Dial By Name

• Callback

Strip	Specify the digits to be prepended before the call is placed via the trunk. Those digits will be prepended after the dialing number is stripped.
Prepend	Specify the digits to be prepended before the call is placed via the trunk. Those digits will be prepended after the dialing number is stripped.
Time Condition	
Start Time	Select the start time "hour:minute" for the trunk to use the inbound rule.
End Time	Select the end time "hour:minute" for the trunk to use the inbound rule.
Date	Select "By Week" or "By Day" and specify the date for the trunk to use the inbound rule.
Week	Select the day in the week to use the inbound rule.
Destination	Select the destination for the inbound call under the defined time condition. Extension Voicemail Conference Room Call Queue Ring Group Paging/Intercom Voicemail Group DISA IVR By DID When "By DID" is used, the UCM will look for the destination based on the number dialed, which could be local extensions, conference, call queue, ring group, paging/intercom group, IVR, and voicemail groups as configured in "DID destination". If the dialed number matches the DID pattern, the call will be allowed to go through. Configure the number of digits to be stripped in the "Strip" option. Dial By Name External Number Callback

Inbound Route: Prepend Example

UCM630X allows users to prepend digits to an inbound DID pattern, with strip taking precedence over prepend. With the ability to prepend digits in the inbound route DID pattern, the user no longer needs to create multiple routes for the same trunk to route calls to different extensions. The following example demonstrates the process:

1. If Trunk provides a DID pattern of 18005251163.

2. If **Strip** is set to 8, UCM630X will strip the first 8 digits.

3. If **Prepend** is set to 2, UCM630X will then prepend a 2 to the stripped number, now the number becomes 2163.

4. UCM630X will now forward the incoming call to extension 2163.

* Trunks :	SIPTrunks test V	
* Pattern :	_18005251163	CallerID Pattern :
Disable This Route:		Allowed to seamless
		transfer:
Alert-info :	None	
Fax Detection :		
Block Collect Calls :		Prepend Trunk Name:
Set CallerID Info:		Enable Route-Level Inbound
		Mode:
Dial Trunk:		Allowed DID Destination : Extension ×
Inbound Multiple Mode:		
Default Mode Mode 1		
	[]	
* Default Destination :	By DID V	
Strip :	8	
Prepend :	2	

Inbound Route feature: Prepend

Inbound Route: Multiple Mode

In the UCM630X, the user can configure an inbound route to enable multiple mode to switch between different destinations. The inbound multiple mode can be enabled under Inbound Route settings.

* Trunks :	SIPTrunks test	
* Pattern :	_18005251163	CallerID Pattern :
Disable This Route:		Allowed to seamless
		transfer:
Alert-info:	None v	
Fax Detection :		
Block Collect Calls :		Prepend Trunk Name :
Set CallerID Info :		Enable Route-Level Inbound

Inbound Multiple Mode:	✓	
Default Mode Mode 1		
* Default Destination :	Extension v	1000 ~

Inbound Route – Multiple Mode

When Multiple Mode is enabled for the inbound route, the user can configure a "Default Destination" and a "Mode 1" destination for all routes. By default,

the call coming into the inbound routes will be routed to the default destination.

SIP end devices that have registered on the UCM630X can dial feature code *62 to switch to inbound route "Mode 1" and dial feature code *61 to switch

back to "Default Destination". Switching between different mode can be easily done without Web GUI login.

For example, the customer service hotline destination has to be set to a different IVR after 7 PM. The user can dial *62 to switch to "Mode 1" with that IVR set as the destination before off work.

To customize feature codes for "Default Mode" and "Mode 1", click on under the "Inbound Routes" page, check the "Enable

Inbound Multiple Mode" option, and change "Inbound Default Mode" and "Inbound Mode 1" values (By default, *61 and *62 respectively).

Set Global Inbound Mode		
Caution: Disabling Inbound	I Multiple Mode will switch the inbound mode to default mode.	
Enable Inbound Multiple Mode :		
Inbound Mode:	Default Mode v	
* Inbound Default Mode :	*61	
* Inbound Mode 1:	*62	

Inbound Route – Multiple Mode Feature Codes

Inbound Route: Route-Level Mode

In the UCM630X, users can enable Route-Level Inbound Mode to switch between different destinations for each inbound route. The inbound Route-Level mode can be enabled under Inbound Route settings.

* Trunks :	SIPTrunks test V]		
* Pattern :		CallerID Pattern :		
		5		
Disable This Route :		Allowed to seamless		
		transfer:		
Alert-info :	None v]		
Fax Detection :				
Block Collect Calls :		Prepend Trunk Name:		
Set CallerID Info :		Enable Route-Level Inbound		
		Mode:		
Inbound Mode:	Default Mode v	* Inbound Mode Suffix:	5000	
Jahouad Multiple Model				



Inbound Route – Route-Level Mode

The global inbound mode must be enabled before configuring Route-Level Inbound Mode. Additionally, Mode 1 must be configured as well.

When Route-Level Inbound Mode is enabled, the user can configure a "Default Destination" and a "Mode 1" destination for each specific route. By default, the call coming into this specific inbound route will be routed to the default destination.

Users can toggle the route's inbound mode by dialing "Global Inbound Mode feature code + Inbound Mode Suffix" and the current inbound route can be monitored by subscribing a BLF to the Inbound Mode Suffix.

For example, the Inbound Default Mode feature code is set to *61 and the Inbound Mode suffix for route 1 is set to 1010. To switch the mode of route 1 to Default Mode, users can dial *611010.

Note: Toggling the global inbound mode will not affect routes that have *Route-level Inbound Mode* enabled. If all routes have the option enabled, toggling the global inbound mode via BLF will trigger a voice prompt indicating that none of the routes will be affected by the global inbound mode change.

Inbound Route: Inbound Mode BLF Monitoring

Users can assign MPKs and VPKs to monitor and toggle the current global inbound mode of the UCM.

To do this, please refer to the following steps:

- 1. Access the UCM web GUI and navigate to Extension/Trunk→Inbound Routes.
- 2. Click on the button and enable Inbound Multiple Mode.
- 3. Edit the subscribe number field to the desired BLF value.

Set Global Inbound Mode		
Caution: Disabling Inbound	Multiple Mode will switch the inbound mod	de to default mode.
Enable Inbound Multiple Mode:		
Inbound Mode:	Default Mode v]
* Inbound Default Mode:	*61]
* Inbound Mode 1:	*62]
BLF Subscription Number:	777]

Global Inbound Mode

4. Configure the BLF value on a phone's MPK/VPK. As an example, a GXP2140 with the BLF configured will show the Inbound Mode status on its screen once configured. The 777 BLF is lit green, indicating that the current inbound mode is "Default Mode".



Inbound Mode – Default Mode

5. Pressing the key will toggle the inbound mode to "Mode 1", and the button's color will change to red.



Inbound Route: Import/Export Inbound Route

Users can now import and export inbound routes to quickly set up inbound routing on a UCM or to back up an existing configuration. An exported inbound route configuration can be directly imported without needing any manual modifications.

Inbound Routes				
🕂 Add 🔓 Blacklist	🔅 Set Global Inbound Mode	🞝 Import	🕞 Export	♥ Filter
INBOUND RULE N AME ≑	I CALLERID PATTE INBOUND RN CALLERID PATTE ODE	M INBOUND M ODE SUFFIX	TIME CONDI TI TION	ME TYPE

Import/Export Inbound Route

The imported file should be in CSV format and using UTF-8 encoding, the imported file should contain below columns, and each column should be separated by a comma (It is recommended to use Notepad++ for the imported file creation):

- Disable This Route: Yes/No.
- Pattern: Always prefixed with _
- CallerID Pattern: Always prefixed with _
- Prepend Trunk Name: Yes/No.
- Prepend User Defined Name Enable: Yes/No.
- Prepend User Defined Name: A string.
- Alert-info: None, Ring 1, Ring 2... User should enter an Alert-info string following the values we have in the Inbound route Alert-Info list.
- Allowed to seamless transfer: [Extension_number]
- Inbound Multiple Mode: Yes/No.
- Default Destination: By DID, Extension, Voicemail... Users should enter a Default Destination string following the values we have in the Inbound route Default Destination list.
- Destination: An Extension number, Ring Group Extension...
- Default Time Condition.
- Mode 1: By DID, Extension, Voicemail... Users should enter a Default Destination string following the values we have in the mode 1 Default Destination list.
- Mode 1 Destination: An Extension number, Ring Group Extension...

• Mode 1 Time Condition.

FAX with Two Media

The UCM630X supports Fax re-INVITE with multiple codec negotiation. If a Fax re-INVITE contains both T.38 and PCMA/PCMU codec, UCM630X will choose T.38 codec over PCMA/PCMU.

Blacklist Configurations

In the UCM630X, Blacklist is supported for all inbound routes. Users could enable the Blacklist feature and manage the Blacklist by clicking on "Blacklist".

- Select the checkbox for "Blacklist Enable" to turn on the Blacklist feature for all inbound routes. Blacklist is disabled by default.
- Enter a number in the "Add Blacklist Number" field and then click "Add" to add to the list. Anonymous can also be added as a Blacklist Number by typing "Anonymous" in Add Blacklist Number field.
- To remove a number from the Blacklist, select the number in the "Blacklist list" and click on 💼 or click on the "Clear" button to remove all the numbers on the blacklist.
- Users can also export the inbound route blacklist by pressing the **Export** button.

Blacklist	Cancel Save
	Î
The blacklist (by CallerID) is used for all inbound routes.	
Warning: Too many blacklist entries will lower overall system performance.	
Blacklist Enable:	
Blacklist Manage	
* Add Blacklist Number:	
Scope Of Action : All ×	
Add	
Blacklist list	
Export	Please enter blacklist number
NUMBER INBOUND ROUTE INDEX	OPTIONS
Anonymous All	C 💼

Blacklist Configuration Parameters

• To add blacklisted numbers in batch, click on "Import" to upload the blacklist file in CSV format. The supported CSV format is as below.

Pa	ste 💉 Format	Painter B	I <u>U</u> → ⊞ →	<u>♪</u> - <u>A</u> -	
	Clipboard	ra	Font	Fa	
F8	Ŧ	E × N	f _x		
a)	А	В	С	D	E
1	13238680006	12135958547	12136268547	6262357999	
2					
3					
4					
5					

Blacklist CSV File

Users could also add a number to the Blacklist or remove a number from the Blacklist by dialing the feature code for "Blacklist Add' (default: *40) and "Blacklist

Remove" (default: *41) from an extension. The feature code can be configured under Web GUI→Call Features→Feature Codes.



The UCM6300 series supports T.30/T.38 Fax and Fax Pass-through. It can convert the received Fax to PDF format and send it to the configured Email

address. Fax/T.38 settings can be accessed via Web GUI \rightarrow Call Features \rightarrow FAX/T.38. The list of received Fax files will be displayed on the same web page for users to view, retrieve and delete.

Configure Fax/T.38

• Click on "Create New Fax Extension". In the popped-up window, fill the extension, name, and Email address to send the received Fax to.

- Click on "Fax Settings" to configure the Fax parameters.
- \circ Click on \square to edit the Fax extension.
- \circ Click on $\ finite for the formula of the form$

Fax Settings		
Enable Error Correction Mode :		
Maximum Transfer Rate:	14400 ~]
• Minimum Transfer Rate:	2400 ~]
Max Concurrent Sending Fax:	Single v]
• Fax Queue Length :	6 ×]
User Information in Fax Header:		
Fax Header Information:]
Default Email Address:		Email Template
Send PDF Files Only:		
Enable Fax Resend :		
Max Resend Attempts :	5]
Fax Resend Frequency:	50]

Fax Settings

Enable Error	Configure to enable Error Correction Mode (ECM) for the Fax.
Correction Mode	The default setting is "Yes".
Maximum Transfer Rate	Configure the maximum transfer rate during the Fax rate negotiation. The possible values are 2400, 4800, 7200, 9600, 12000, and 14400. The default setting is 14400.
Minimum Transfer Rate	Configure the minimum transfer rate during the Fax rate negotiation. The possible values are 2400, 4800, 7200, 9600, 12000, and 14000. The default setting is 2400.
	Configure the concurrent fax that can be sent by UCM6300. Two modes "Only" and "More" are supported.

Under this mode, the UCM6300 allows only a single user to send a fax at a time.
• More
Under this mode, the UCM6300 supports multiple concurrent faxes sending by the users. By default, this option is set to "only".
Configure the maximum length of Fax Queue from 6 to 10. The default setting is 6.

User Information in Fax Header	If enabled, this will give users the option to send a special header in SIP fax messages.
Fax Header Information	Adds fax header into the fax file.
Default Email Address	Configure the Email address to send the received Fax to if the user's Email address cannot be found. Note: The extension's Email address or the Fax's default Email address needs to be configured to receive Fax from Email. If neither of them is configured, Fax will not be received from email.
Template Variables	 Fill in the "Subject:" and "Message:" content, to be used in the Email when sending the Fax to the users. The template variables are: \${CALLERIDNUM}: Caller ID Number \${CALLERIDNAME}: Caller ID Name \${RECEIVEEXTEN}: The extension to receive the Fax \${FAXPAGES}: Number of pages in the Fax \${VM_DATE}: The date and time when the Fax is received. (Format: MM/dd/yyyy hh:mm:ss)
Send PDF Files Only	If enabled, fax emails will no longer attach TIFF files. Only PDF files will be attached.
Enable Fax Resend	Enables the fax resend option which allows the UCM to keep attempting to send faxes up to a specified amount of times. Additionally, if fax still fails to send, a <i>Resend</i> button will appear in the File Send Progress list in <i>Other Features</i> \rightarrow <i>Fax Sending</i> to allow manual resending.
Max Resend Attempts	Configures the number of the maximum attempts to resend the fax. The default value is set to 5.
Fax Resend Frequency	Configures the Fax Resend Frequency.

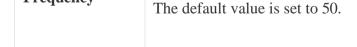


Table 71: FAX/T.38 Settings

Receiving Fax

Example Configuration to Receive Fax from PSTN Line

The following instructions describe how to use the UCM6300 to receive fax from the PSTN line on the Fax machine connected to the UCM6300 FXS port.

1. Connect Fax machine to the UCM6300 FXS port.

- 2. Connect PSTN line to the UCM6300 FXO port.
- 3. Go to Web GUI**→Extension/Trunk** page.
- 4. Create or edit the analog trunk for Fax as below.

Fax Detection: Make sure the "Fax Detection" option is set to "NO".

Edit Analog Trunk: FAX				Cancel Save
				^
* FXO Port:	✓ 1 □ 2	* Trunk Name:	FAX]
Advanced Options				
SLA Mode:				
Enable Polarity Reversal:				
Current Disconnect	200	* Ring Timeout:	8000]
Threshold (ms):				
* RX Gain:	OdB ~	* TX Gain :	OdB ~]
Use CallerID:	~	Fax Mode:	None v	
Caller ID Scheme:	Bellcore/Telcordia v	* FXO Dial Delay (ms):	0]
Auto Record :		Disable This Trunk:		
DAHDI Out Line	Ascend v	* The Maximum Number of	0	
Selection:		Call Lines:		
Echo Cancellation Mode:	Default ~	Direct Callback:		

Configure Analog Trunk

- 5. Go to UCM6300 Web GUI→Extension/Trunk→Extensions page.
- 6. Create or edit the extension for FXS port.
- Analog Station: Select FXS port to be assigned to the extension. By default, it is set to "None".
- Once selected, analog related settings for this extension will show up in "Analog Settings" section.

Create New Extension		
Basic Settings Media Fea	atures Specific Time Follow Me	Cancel Save
Select Extension Type:	FXS Extension v	
Select Add Method :	Single ~	
General		

• Extension :	1005	Analog Station :	FXS1 ×	
CallerID Number:		* Privilege :	Internal v	
Voicemail:	Local Voicemail v	* Voicemail Password :	96902350	
Skip Voicemail Password Verification :		Send Voicemail Email Notification :	Default ~	
Attach Voicemail to Email:	Default ×	Keep Voicemail after Emailing:	Default ~	
Disable This Extension :		Emergency Calls CID :		

Configure Extension for Fax Machine: FXS Extension

Create New Extensio	n									
Basic Settings Med	lia Features	s Specific	Time Follow	Me					Cancel	Save
Analog Settings										
Call Waiting:						Use "#" as SEND :	2			
• RX Gain:	C	ldB		v]	• TX Gain:	0dB		~	
• MIN RX Flash (ms):	2	:00]	• MAX RX Flash :	125	0		
Enable Polarity Revers	al: 🗸	I				• Echo Cancellation :	ON		~	
3-way Calling:	~	I				• Send CallerID After :	1		~	
• Fax Mode:	F	ax Gateway		^]	Fax to Email :	Yes		~	
		None								
		Fax Detection								
		Fax Gateway								

Configure Extension for Fax Machine: Analog Settings

7. Go to Web GUI→Extension/Trunk→Inbound Routes page.

8. Create an inbound route to use the Fax analog trunk. Select the created extension for Fax machine in step 4 as the default destination.

Create New Inbound R	ule		(Cancel Save
				^
				_
* Trunks:	AnalogTrunks FAX V	Inbound Route Name:		
* Pattern :	S	CallerID Pattern:		
	.:			
Disable This Route:		Seamless Transfer		
		Whitelist:	L	_
Alert-info:	None v	Ringback Tone:	None	×
Fax Detection:		Auto Record:		_
Prepend Trunk Name:		Set CallerID Info:		
Enable Route-Level Inbound Mode :		Inbound Multiple Mode:		
Default Mode Mode	1			
* Default Destination:	Extension ~	1008 "Fax Extension"	~	

Configure Inbound Rule for Fax

Now the Fax configuration is done. When there is an incoming Fax calling to the PSTN number for the FXO port, it will send the Fax to the Fax machine.

Example Configuration for Fax-To-Email

The following instructions describe a sample configuration on how to use Fax-to-Email feature on the UCM6300.

1. Connect PSTN line to the UCM6300 FXO port.

2. Go to UCM6300 Web GUI→Call Features→Fax/T.38 page. Create a new Fax extension.

Create New Fax Extensi	on	
* Extension:	7200	
* Name:	Fax	
* Email Address :	fax@domain.local	•
	Add Email Address	0

Create Fax Extension

3. Go to UCM6300 Web GUI → Extension/Trunk → Analog Trunks page. Create a new analog trunk. Please make sure "Fax Detection" is set to "No".

4. Go to UCM6300 Web GUI→Extension/Trunk→Inbound Routes page. Create a new inbound route and set the default destination to the Fax extension.

Create New Inbound R	ule				Cancel	Save
						-
* Trunks:	AnalogTrunks FAX v]	Inbound Route Name:			
* Pattern :	S		CallerID Pattern:			
					:	
Disable This Route :			Seamless Transfer			
			Whitelist:			
Alert-info:	None v]	Ringback Tone:	None	~	
Fax Detection:			Auto Record:			
Prepend Trunk Name:			Set CallerID Info:			
Enable Route-Level			Inbound Multiple Mode:			
Inbound Mode:						
Default Mode Mode	1					
	[] [
* Default Destination :	Fax ~	Fax		~		

Inhound	Route	to Far	x Extension
indouna	коше	ю гал	<i>Extension</i>

5. Once successfully configured, the incoming Fax from external Fax machine to the PSTN line number will be converted to PDF+Tiff file and sent to the extension 7200 and email address **fax@domain.local** as attachment.

In order for the file to be sent to the email address configured on the external extension, please make sure that the email settings are well configured. Please refer to [Email Settings] section.

		Q Callee Number
DATE \$	SIZE \$	OPTIONS
2021-01-25 11:22:46 UTC+01:00	1.49 KB	⊻ 💼
2021-01-25 11:22:46 UTC+01:00	5.69 KB	<u>↓</u> 🗍
	DATE \$ 2021-01-25 11:22:46 UTC+01:00 2021-01-25 11:22:46 UTC+01:00	2021-01-25 11:22:46 UTC+01:00 1.49 KB

List of Fax Files

FAX Sending

Besides the support of Fax machines, The UCM6300 supports also sending Fax via Web GUI access. This feature can be found on Web GUI→Other **Features→Fax Sending** page. To send fax, pre-setup for analog trunk and outbound route is required. Please refer to *[ANALOG TRUNKS]*, *[VOIP TRUNKS]* and *[Outbound Routes]* sections for configuring analog trunk and outbound route.

After making sure analog trunk or VoIP Trunk is setup properly and UCM6300 can reach out to PSTN numbers via the trunk, on Fax Sending page, enter the fax number and upload the file to be faxed. Then click on "Send" to start. The progress of sending fax will be displayed in Web GUI. Users can also view the sending history is in the same web page.

Fax Sending		
* External Fax Number : Fax File :	0123456789 test.pdf	
File Send Progress		Q External Fax Number

Fax Sending in Web GUI

After that you can	see the ongoing	sending operation	on the progress bar.
			F - 0

Fax Sending					
* External Fax Number: Fax File :	Choose File to Upload				
File Send Progress Image: Delete Image: Delete NAME \$	DATE ≑	SENDER \$	EXTERNAL FAX NUMBER \$	Q External Fax Number	OPTIONS
test.pdf	2021-01-25 11:29:19 UTC+ 01:00	admin	0123456789	Sending 5%	Î

MULTIMEDIA MEETING

The UCM630X supports multimedia meeting room allowing multiple rooms used at the same time.

The multimedia meeting room configurations can be accessed under Web $GUI \rightarrow Call Features \rightarrow$ Multimedia Meeting. In this page, users could create, edit, view, invite, manage the participants, and delete multimedia meeting rooms. The multimedia meeting room status and meeting call recordings (if recording is enabled) will be displayed in this web page as well.

For video meeting, which is based on WebRTC, participants can join the meeting from PC without installing extra plug-in or software.

The UCM admin can create multiple multimedia meeting rooms for users to dial in.

Fax Send Progress

UCM630x Series	Number of public meeting rooms	Number of meeting room members
UCM6301	4	75
UCM6302	8	150
UCM6304	15	200
UCM6308	25	300

Meeting room specifications affect user participation to a certain extent. UCM supports forecasting of meeting resources. There will be corresponding judgments and adjustments in the following scenarios:

- 1. When meeting resources are used up, scheduled meeting members cannot join the meeting in advance.
- 2. When a point-to-point call is transferred to a conference, the conference resources are used up.
- 3. When meeting resources are used up, do not join a group IM chat when you initiate a meeting.
- 4. When meeting resources are used up, do not join an instant meeting.
- 5. Close other instant meetings or scheduled meetings that have timed out to ensure that invited members can join the scheduled meeting.
- 6. In an ongoing meeting, if the number of invited members exceeds the upper limit, members cannot be invited to join the meeting.
- 7. Enable flow control for videos and presentations in the conference room.

Notes:

The multimedia meeting room supports up to 4 video calls and one video presentation.

- The administrator can set the number of videos to 9 parties. The increase in the number of videos will take up more system resources and affect the overall performance of the UCM system. Please set it according to your needs.

- During a meeting, when the system detects that another scheduled meeting is about to be held, it will remind the meeting members that the subsequent meeting room has been reserved, please end the meeting in advance.

- The use of video in the meeting will take up system resources and may cause performance problems when used.

- The maximum meeting duration is 12 hours. If it exceeds 12 hours, the system will remind the current meeting and the host can continue to extend the meeting.

Multimedia Room Configurations

- Click on "Add" to add a new meeting room.
- Click on to edit the meeting room.
- Click on to delete the meeting room.

Meeting Settings contains the following options:

Meeting Name	Enter the meeting's name.
Privilege	Select the permission level for outgoing call.
Allow User Invite	If enabled, participants can invite other members to the meeting room.
Allowed to Override Host Mute	When turned on, participants are allowed to actively unmute when they are muted by the moderator.
	Select an option to record the meeting. The recording options are:None: Meeting recording is disabled.
	• Record Audio: Only the audio of the meeting will be recorded.
	• Record Video: Both audio and video recordings of the meeting will be recorded.
	• Record Video (Only Shared Screen): Only shared screen video feed will be recorded and the audio of all the participants in the
Auto Record	meeting. Please note that the recording will only start when the screensharing starts. Any video feeds already ongoing will not be recorded.
	The recording audio files are stored as .WAV files, while the audio-video recording files are stored as .MKV.
	The files names are created following this format: <i>meeting-\${Meeting Number}-\${UNIQUEID}</i> . The recordings can be downloaded
	from the Meeting Recordings menu or the Meeting Video Recordings page.
	Note: When this option has been enabled the meeting host cannot stop the recording of the meeting.
Room Password	If meeting room password is configured, meeting participants will need to enter a password to enter the room. Scheduling meetings will not be supported for this room.

Log in to the UCM Web GUI and open the **Call Features** \rightarrow **Multimedia Meeting** page to manage the conference room. Users can create, edit, view, invite, manage meeting members, and delete meeting rooms. The conference room status and conference call recording (if recording function is enabled) will be displayed on the page. The meeting rooms in the list include public meeting rooms and random meeting rooms. For temporary meeting room administrators, only the "batch kicking people" function is supported. The temporary meeting room has no meeting password and host code. The member who initiates the group meeting is the host, and ordinary members have the right to invite.

Multimedia Meeting

Multimedia Meeting Call Operations

Join a Meeting Call

Users could dial the meeting room extension to join the meeting. If password is required, enter the password to join the meeting as a normal user, or enter the admin password to join the meeting as administrator.

Invite Other Parties to Join Meeting

When using the UCM630X meeting room., there are two ways to invite other parties to join the meeting.

• Invite from Web GUI.

For each meeting room in UCM630X Web GUI \rightarrow Call Features \rightarrow Multimedia Meeting, there is an icon for option "Invite a participant". Click on it and enter the number of the party you would like to invite. Then click on "Add". A call will be sent to this number to join it into the conference.

Invitation		×
* Participant Extension : Require Confirmation :	1003	
	Cancel Add	

Meeting Invitation from Web GUI

• Invite by dialing 0 or 1 during conference call.

A meeting participant can invite other parties to the meeting by dialing from the phone during the meeting call. Please make sure option "Enable User Invite" is turned on for the meeting room first. Enter 0 or 1 during the meeting call. Follow the voice prompt to input the number of the party you would like to invite. A call will be sent to this number to join it into the meeting.

0: If 0 is entered to invite other party, once the invited party picks up the invitation call, a permission will be asked to "accept" or "reject" the invitation before joining the conference.

1: If 1 is entered to invite other party, no permission will be required from the invited party.

Conference administrator can always invite other parties from the phone during the call by entering 0 or 1. To join a conference room as administrator, enter the admin password when joining the conference. A conference room can have multiple administrators.

During the meeting

During the meeting call, users can manage the conference from Web GUI or IVR.

• Manage the meeting call from Web GUI.

Log in UCM630X Web GUI during the meeting call, the participants in each meeting room will be listed.

1. Click on to kick a participant from the meeting.

2. Click on to mute the participant.

- 3. Click on to lock this meeting room so that other users cannot join it anymore.
- 4. Click on to invite other users into the meeting room.
- 5. Click on to Invite meeting rooms or invite contact groups.

• Manage the meeting call from IVR.

Please see options listed in the table below.

Meeting Administrator IVR Menu	
1	Mute/unmute yourself.
2	Lock/unlock the conference room.
3	Kick the last joined user from the conference.
4	Decrease the volume of the conference call.
5	Decrease your volume.
6	Increase the volume of the conference call.
7	Increase your volume.
8	 More options. 1: List all users currently in the conference call. 2: Kick all non-Administrator participants from the conference call. 3: Mute/Unmute all non-Administrator participants from the conference call. 4: Record the conference call. 8: Exit the caller menu and return to the conference.
Meeting User IVR Menu	
1	Mute/unmute yourself.

4	Decrease the volume of the conference call.
5	Decrease your volume.
6	Increase the volume of the conference call.
7	Increase your volume.
8	Exit the caller menu and return to the conference.

1 When there is participant in the meeting, the meeting room configuration cannot be modified.

Google Service Settings Support

UCM630X now supports Google OAuth 2.0 authentication. This feature is used for supporting UCM630X conference scheduling system. Once OAuth 2.0 is enabled, UCM630X conference system can access Google calendar to schedule or update conference.

Google Service Settings can be found under Web GUI \rightarrow Call Features \rightarrow Multimedia Meeting \rightarrow Google Service Settings \rightarrow Google Service Settings.

OAuth2.0 Authentication		
* OAuth2.0 Client ID :		
* OAuth2.0 Client Secret:		
	Save	

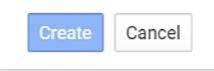
Google Service Settings \rightarrow OAuth2.0 Authentication

If you already have OAuth2.0 project set up on **Google Developers** web page, please use your existing login credential for "OAuth2.0 Client ID" and "OAuth2.0 Client Secret" in the above figure for the UCM630X to access Google Service.

If you do not have OAuth2.0 project set up yet, please following the steps below to create new project and obtain credentials:

1. Go to Google Developers page https://console.developers.google.com/start Create a New Project in Google Developers page.

Project n	ame 🕜	
OAuth	Test	
Your proj	ect ID will be animated-surfer-112001	2 Edit
Show ac	vanced options	
	mail me updates regarding feature ar ons, feedback surveys and special of	
Yes	○ No	
Lagr	ee that my use of any services and r	elated ADIs is subject to my



Google Service→New Project

2. Enable Calendar API from API Library.

3. Click "Credentials" on the left drop down menu to create new OAuth2.0 login credentials.

Google Developers Console	OAuthTest 👻
Home Permissions APIs & auth APIs Credentials Push Monitoring Source Code Deploy & Manage Compute Networking Storage Big Data	API Library Enabled APIs (8) Some APIs are enabled automatically. You can disable them if you're not using their services. API ^ BigQuery API Calendar API Cloud Debugger API Debuglet Controller API Google Cloud Logging API Google Cloud SQL Google Cloud Storage Google Cloud Storage JSON API

Google Service \rightarrow Create New Credential

- 4. Use the newly created login credential to fill in "OAuth2.0 Client ID" and "OAuth2.0 Client Secret".
- 5. Click "Get Authentication Code" to obtain authentication code from Google Service.

Google Calenc	dar Authorization
	1.Click "Get Authorization Code". Get Authorization Code
2 log out	2.Enter the Google account and password (Note: please make sure the account on authorization page is correct, if you have logged in other account, p t then log in again).
3	3.Click "Accept" on authorization page.
4	4.Copy the string to the Authorization Code input box, click the "authorize" button.
ж	* Authorization Code:

Google Service \rightarrow OAuth2.0 Login

6. Now UCM630X is connected with Google Service.

You can also configure the Status update, which automatically refresh your Google Calendar with the configured time (m). Note: Zero means disable.

Meeting Schedule

Log in to the UCM Web GUI, open the **Call Features** \rightarrow **Mutimedia Meeting** \rightarrow **Meeting Schedule** page, and you can manage the reservation management of the meeting room. Users can create, edit, view, and delete conference room reservation records. The following is a set meeting room reservation, which shows the ongoing and pending reservations. Once the conference room is reserved, all users will be removed from the conference room at the start time, and extensions will no longer be allowed to enter the conference room. At the scheduled meeting time, UCM will send invitations to the extensions that have been selected to participate in the meeting. At the same time, it supports users to enter the meeting 10 minutes in advance. If the current meeting is occupied, enter the waiting room and wait (members joining the meeting in advance occupy global member resources, but it will be released after the scheduled meeting starts); otherwise, you can join the meeting directly and the meeting will be held in advance. After the meeting ends, the reservation record is transferred to the historical meeting list. History meeting displays the information of the ended and expired meetings. • Click the button "Schedule Meeting" to edit the meeting room reservation.

Schedule meeting Interface

Schedule Options				
Meeting Subject	Configure the name of the scheduled conference. Letters, digits, Other special characters are also supported. such as #%&@*=			
Meeting Room	Choose which room to have this scheduled meeting. If this option has been enabled, please select an existing room for this meeting. If this option has not been enabled, a new meeting room will be created.			
Time	Configure the meeting date and time.			
Time Zone	Select the meeting time zone.			
Password	Configure the conference login password.			
Host Password	Configure the Host Password. Note : It is randomly generated when first creating a new meeting Schedule.			
Host	Configure Host.			

Repeat	Choose when to repeat a scheduled conference.
	If this option is enabled, the user can:
	• Press '0' to invite others to join the meeting with invited party's permission
	• Press '1' to invite without invited party's permission
Allow User Invite	• Press '2' to create a multi-meeting room to another meeting room
	• Press '3' to drop all current multi-meeting rooms.
	Note:
	Meeting host is always allowed to access this menu.

Call Participant	If enabled, the invited participants will be called upon meeting start time.
Allowed to Override Host Mute	If enabled, participants will be able to unmute themselves if they have been muted by the host.
Email Reminder (m)	Email reminders will be sent out x minutes prior to the start of the meeting. Valid range is 5-1440. 60 is the default value.0 indicates not to send out email reminders for the meeting.Note: After editing the time of a single recurrence of a scheduled meeting, a cancelation email will now be sent out followed by a meeting update email.
Auto Record	If selected, the meeting will be recorded and saved as either a .WAV or .MKV file. The default filename is meeting-\${Meeting Number}-\${UNIQUEID}. Recordings can be downloaded from either the Meeting Recordings or the Meeting Video Recordings page. Video recordings require external storage to be available. When recording a screen share, only the screen share and meeting audio will be recorded. Note: Please note that UCM63XX Audio Series doesn't support Screen Sharing, Whiteboard, or PDF file sharing.
Enable Google Calendar	Select this option to sync scheduled conference with Google Calendar. Note : Google Service Setting OAuth2.0 must be configured on the UCM630X. Please refer to section <i>[Google Service Settings Support]</i> .
Meeting Agenda	Enter information about the meeting, e.g., the purpose of the meeting or the subjects that will be discussed in the meeting.
Invitees	Local extensions, remote extensions, and special extensions are supported.

Once the Meeting Schedule is configured, scheduled meeting will be displayed as below figure.

Meetings Schedule

• Click the button to view the meeting details in the Meeting room. The meeting details of Meeting History include actual participant information.

Meeting details

- Click on to edit the Meeting Schedule.
- Click on to delete the Meeting Schedule.

At the scheduled meeting time, UCM630X will send INVITE to the extensions that have been selected for conference.

Once the meeting starts, it will be displayed under **Pending Meeting** with an "Ongoing" status, as displayed below:

Figure 152: Meeting Scheduled – Ongoing

Once the conference is finished, the conference will be displayed under Historical meeting as below:

Meeting Schedule – Completed

- Click the button to download the Meeting Report of the meeting.
- to reschedule the Meeting. • Click the button

In addition, once the meeting ends, the system will send a meeting report email to the host including PDF file where he/she can view the meeting, participant information, device type and trend graph of participant levels.

You can also choose to display the meetings that took place in a specific timeframe. Please see the screenshot below:

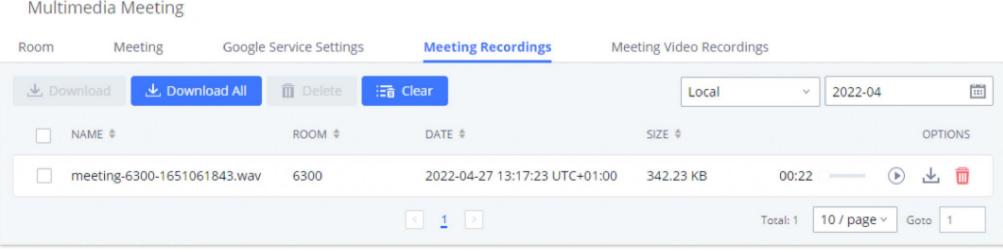
Please make sure that outbound route is properly configured for remote extensions to join the meeting.

Meeting Recordings

The UCM630X allows users to record the audio of the meeting call and retrieve the recording from Web GUI -> Call Features -> Multimedia Meeting -> Meeting Recordings.

To record the Meeting call, when the meeting room is in idle, enable "Auto Record" from the meeting room configuration dialog. Save the setting and apply the change. When the meeting call starts, the call will be automatically recorded in .wav format.

The recording files will be listed as below once available. Users could click on 🛓 to download the recording or click on 👼 to delete the recording. Users could also delete all recording files by clicking on "Delete All Recording Files" or delete multiple recording files at once by clicking on "Delete" after selecting the recording files.



Meeting Recordings

Meeting Video Recordings

The UCM630X allows users to record the audio and video of the meeting call and retrieve the recording from Web GUI \rightarrow Call Features \rightarrow Multimedia Meeting \rightarrow Meeting Recordings.

To record the Meeting call, when the meeting room is in idle, enable "Auto Record" from the meeting room configuration dialog. Save the setting and apply the change. When the meeting call starts, the call will be automatically recorded in .mkv format.

The recording files will be listed as below once available. Users could click on 🗄 to download the recording or click on 💼 to delete the recording. Users could also delete all recording files by clicking on "Delete All Recording Files" or delete multiple recording files at once by clicking on "Delete" after selecting the recording files.

Call Statistics

Meeting reports will now be generated after every conference. These reports can be exported to a .CSV file for offline viewing. The conference report page can be accessed by clicking on the Call Statistics button on the main Conference page.

+ Add	O Meeting S	ettings 🛛 🏨 Call Statist	ics Enable CEI Notify	V			
F	ROOM	ATTENDEE	HOST	START TIME	ACTIVITY		OPTIONS
- 6	5301	0	0			1. 6 6 11	4 h 🖻 🗖
[USER	C	ALLER ID C	ALLER NAME	CHANNEL NAME	ACTIVITY	OPTIONS

Meeting	Call	Statistics
---------	------	-------------------

Call Statistics			
速, Download 🗻 Delete Report 🗘 Scheduled Export		2019-11-01 10 2019-11-07	Access To Rep
CONFERENCE	START TIME	TIME	
₩ 6301	2019-11-07 16:12:16	00:01:16	
9 1001 Name	1001 Stanber	Received Administration Mode	Answered
Sales Stans	 Muniber	Invitation Administration Mode	0 / 4 State
Conference invitation	1002 Number	Invitation Administration Mode	Failed
Conference invitation	1005 Number	Invitation Administration Mode	Failed

Meeting Report on Web

1	А	В	с	D	E	F	G
1	Room	Start Time	Duration Time				
2	6301	11/7/2019 16:12	0:01:16				
3	Contact Number	Name	Way	Status	Contact G	roup Name	
4	1002	Conference invitatio	INVITE	FAILURE	Sales		
5	1005	Conference invitatio	INVITE	FAILURE	Sales		
6	1004	Conference invitatio	INVITE	FAILURE	Sales		
7	1003	Conference invitatio	INVITE	FAILURE	Sales		
0	1001	1001	CALLIN	ANGWED			



Meeting Report on CSV

ONSITE MEETING

For workplaces that require employees to return to physical offices for work, Grandstream UCM offers the Onsite Meetings feature, a new way to stay organized and keep up-to-date with in-person meetings. This feature allows administrators to create and manage onsite meeting rooms, specify meeting room locations, schedule meetings, and add conferencing equipment. The new feature can be found under the *Other Features* \rightarrow *Onsite Meeting* page. The first page that appears is the **Scheduled Meetings** page and tab page, which provide an overview of all created meeting rooms. It provides information about the rooms' meeting schedules for the day, their locations, their member capacity, and their equipment.

Onsite Meet	ting											
cheduled Meet	tings	Room Man	agement	Equipm	ent	Address M	anagement					
Scheduled Me	etings	Pending Meet	ing Mee	eting History								
Time: 2022-1	11-15 🛅	Office Building	: All	~ Eq	uipment:	All	∨ Partici	pant Capacity:	All ~	Status:	All	~
TIRIFIC	eting_Roo											
11 12 22	♀ 5, Mai	in Office									proje	ctor
0		2					<u> </u>					12
	13	14	15	16	17	18	19	20	21	22	23	24
									<u>1</u> Dotal:	1 10 / pag	ge ~ Goto	1
		Co	pyright © Grar	ndstream Networ	ks, Inc. 2022.	All Rights Rese	rved.					

Schedule Onsite Meetings

The **Pending Meeting** tab and **Meeting History** tab show detailed information about upcoming meetings and previous meetings respectively. From the **Pending Meeting** tab, users can delete upcoming meetings and extend the duration of ongoing meetings. **The Meeting History** tab will display the last 6 months of onsite meetings.

duled Meetings R	oom Management Facility	Address Management							
eduled Meetings	ing Meeting Meeting History								
Schedule Meeting				Meet	ting Subject 🔍			5	Sear
MEETING SUBJECT \$	MEETING ROOM 0	MEETING OWNER \$	START TIME Ø	MEETING DURATION \$	REPEAT 0			OPT	
Quick Meeting Starting soon			Today 20:00 Etc/GMT+8	00:30:00	No Repeat	0	Ľ		
Recent Events	BackupRoom	an analysis.	2022-11-24 07:00 Etc/GMT+8	01:00:00	No Repeat	0	Ľ	1	C
Yearly Reports	Primary-Meeting-Room	which give a	2022-12-29 13:00 Etc/GMT+8	01:00:00	No Repeat	0	Ľ		0

Pending Onsite Meetings

IVR

Configure IVR

IVR configurations can be accessed under the UCM630X Web GUI→Call Features→IVR. Users could create, edit, view, and delete an IVR.

- Click on "Add" to add a new IVR.
- $\circ~$ Click on ~ ${\scriptstyle \ensuremath{\mathbb Z}}$ to edit the IVR configuration.
- \circ Click on $\overline{\mathbf{m}}$ to delete the IVR.

Create New IVR		
Basic Settings Key Pressing Event	5	
• Name :	GStest]
• Extension :	7000]
Dial Trunk :		
Auto Record :		
Dial Other Extensions:	🗌 All 🔽 Extension 🗌 Audio Conference 🗌 Video Co	onference 🗌 Call Queue
	Ring Group Paging/Intercom Groups Voicemai	il Groups 📃 Fax Extension
	Dial By Name	
* IVR Black/Whitelist:	Disable ~]
Replace Display Name:		
Return to IVR Menu :		
Alert-info:	None v]
• Prompt:	welcome ~	🔥 Upload Audio File
	Add Prompt	•
• Digit Timeout (s):	3]
* Response Timeout :	10]
* Response Timeout Prompt:	ivr-create-timeout ~	🔥 Upload Audio File
• Invalid Input Prompt:	invalid ~	🔥 Upload Audio File
Response Timeout Prompt Repeats :	3 ~	
• Invalid Input Prompt Repeats:	3 ~	
Language :	Default ~]

Create New IVR

Basic Settings	
Name	Configure the name of the IVR. Letters, digits, _ and – are allowed.
Extension	Enter the extension number for users to access the IVR.
Dial Trunk	If enabled, all callers to the IVR can use trunk. The permission must be configured for the users to use the trunk first. The default setting is "No".
Auto Record	If enabled, calls to this IVR will automatically be recorded.

Assign permission level for outbound calls if "Dial Trunk" is enabled. The available permissions are "Internal", "Local", "National" and

"International" from the lowest level to the highest level.

Permission The default setting is "Internal". If the user tries to dial outbound calls after dialing into the IVR, the UCM630X will compared the IVR's permission level with the outbound route's privilege level.

If the IVR's permission level is higher than (or equal to) the outbound route's privilege level, the call will be allowed to go through.

Dial Other Extensions	 This controls the destination that can be reached by the external caller via the inbound route. The available destinations are: Extension Conference Call Queue Ring Group Paging/Intercom Groups Voicemail Groups Dial by Name All
IVR	
Black/Whit elist	If enabled only numbers inside of the Whitelist or outside of the Blacklist can be called from IVR.
Internal	
Black/Whit elist	Contain numbers, either of Blacklist or Whitelist.
External	
Black/Whit elist	This feature can be used only when Dial Trunk is enabled, it contains external numbers allowed or denied calling from the IVR, the allowed format is the following: Number1, number2, number3
Replace	
Display Name	If enabled, the UCM will replace the caller display name with IVR name.
Return to	
IVR Menu	If enabled and if a call to an extension fails, the caller will be redirected to the IVR menu.
Alert Info	When present in an INVITE request, the alert-Info header field specifies and alternative ring tone to the UAS.
Dromot	Select an audio file to play as the welcome prompt for the IVR. Click on "Prompt" to add additional audio file under Web GUI >PBX
Prompt	Settings→Voice Prompt→Custom Prompt.

Digit Timeout	Configure the timeout between digit entries. After the user enters a digit, the user needs to enter the next digit within the timeout. If no digit is detected within the timeout, the UCM630X will consider the entries complete. The default timeout is 3s.
Response Timeout	After playing the prompts in the IVR, the UCM630X will wait for the DTMF entry within the timeout (in seconds). If no DTMF entry is detected within the timeout, a timeout prompt will be played. The default setting is 10 seconds.
Response Timeout Prompt	Select the prompt message to be played when timeout occurs.

Invalid Input Prompt	Select the prompt message to be played when an invalid extension is pressed.
Response Timeout Prompt Repeats	Configure the number of times to repeat the prompt if no DTMF input is detected. When the loop ends, it will go to the timeout destination if configured, or hang up. The default setting is 3.
Invalid Input Prompt Repeats	Configure the number of times to repeat the prompt if the DTMF input is invalid. When the loop ends, it will go to the invalid destination if configured, or hang up. The default setting is 3.
Language	Select the voice prompt language to be used for this IVR. The default setting is "Default" which is the selected voice prompt language under Web GUI \rightarrow PBX Settings \rightarrow Voice Prompt \rightarrow Language Settings. The dropdown list shows all the current available voice prompt languages on the UCM630X. To add more languages in the list, please download voice prompt package by selecting "Check Prompt List" under Web GUI \rightarrow PBX Settings \rightarrow Voice Prompt \rightarrow Language Settings.
Key	
Pressing Events	

	Select the event for each key pressing for 0-9, *, Timeout and Invalid. The event options are:
	Select the event for each key pressing for 0-2, , finicout and invand. The event options are.
	• Extension
Key Press	• Voicemail
Event:	• Multimedia Meeting
Press 0	 Voicemail Group
Press 1	• IVR
Press 2	• Ring Group
	• Queues
Press 3	• Page Group
Press 4	• Custom Prompt
Press 5	• Hangup
Press 6	• DISA
rress o	• Dial by Name
Press 7	• External Number
Press 8	• Callback
Press 9	For each key event, time condition can be configured. At the configured time condition, this IVR key event can be triggered. Office time,
	holiday time or specific time can be configured for time condition. Up to 5 time conditions can be added for each key.
Press *	The available time conditions are 'All', 'Office Time', 'Out of Office Time', 'Holiday', 'Out of Holiday', 'Out of Office Time or Holiday',
	'Office Time and Out of Holiday' and 'Specific Time'. If 'Specific Time' is selected, a new window will prompt for admin to configure start
	time, end time and frequency.
Timeout	When exceeding the number of defined answer timeout, IVR will enter the configured event when timeout. If not configured, then it will
Timeout	Hangup.
Invalid	Configure the destination when the Invalid Repeat Loop is done.
Time Condition	Configure the time condition for each key press event, so that it goes to the corresponding destination within a specified time.
Condition	

Edit IVR: test								
asic Settings	Key Pressing Ev	/ents					Cano	cel
Press 0								
Destination:		Extension	× 3001 ×		Time Condition:	Specific Time	~	•
		TIME	WEEK	MONTH	DAY		OPTIONS	
		08:00-11:00	Sun Mon Tue Wed Thu Fri Sat	Default	Default		Ľ	
							Add	Ð
Press 1								
Destination:		Select an Option	~		Time Condition:	All Time	~	•
							Add	Ð
Press 2								
Destination:		Select an Option	~		Time Condition:	All Time	~	•
							Add	Ð
Press 3								
Destination:		Select an Option	~		Time Condition:	All Time	~	0
							Add	Ð
Press 4			_					
Destination:		Select an Option	~		Time Condition:	All Time	V	•
							Add	O

Figure 159: Key Pressing Events

Black/Whitelist in IVR

In some scenarios, the IPPBX administrator needs to restrict the extensions that can be reached from IVR.

For example, the company CEO and directors prefer only receiving calls transferred by the secretary, some special extensions are used on IP surveillance end points which should not be reached from external calls via IVR for privacy reason. UCM has now added blacklist and whitelist in IVR settings for users to manage this.

Up to 500 extensions are allowed on the back/whitelist.

To use this feature, log in UCM Web GUI and navigate to **Call Features→IVR→**Create/Edit IVR: IVR Black/Whitelist.

• If the user selects "Blacklist Enable" and adds extension in the list, the extensions in the list will not be allowed to be reached via IVR.

• If the user selects "Whitelist Enable" and adds extension in the list, only the extensions in the list can be allowed to be reached via IVR.

ic Settings Key Pres	sing Events
Name:	Name
Extension :	7000
Dial Trunk :	
Permission :	Internal ×
Dial Other Extensions :	 All ▼ Extension □ Conference □ Video Conference Call Queue □ Ring Group □ Paging/Intercom Groups □ Voicemail Groups □ Fax Extension □ Dial By Name
VR Black/Whitelist:	Blacklist Enable v
VR Black/Whitelist : nternal Black/Whitelist :	

Black/Whitelist

Create Custom Prompt

To record new IVR prompt or upload IVR prompt to be used in IVR, click on "Upload Audio File" next to the "Welcome Prompt" option and the users will be redirected to Custom Prompt page. Or users could go to Web GUI->PBX Settings->Voice Prompt->Custom Prompt page directly.

Alert-info:	None	~	
* Prompt:	welcome	~	🔥 Upload Audio File
		Add Prompt	•

Click on Prompt to Create IVR Prompt

Once the IVR prompt file is successfully added to the UCM630X, it will be added into the prompt list options for users to select in different IVR scenarios.

Key Pressing Events

Standard Key Event

UCM supports adding time conditions for different key events, so that each key event of the IVR goes to the corresponding destination within a specified time.

Each key event support up to five time conditions, the options available are: All time, Office Time, Out of Office Time, Holiday, Out of Holiday, Out of Office Time or Holiday, Office Time and Out Of Holiday, Specific time.

Settings Key P	ressing Events		Car	cel
Press 0				
Destination:	Select an Option 🗸	Time Condition:	Office Time v	•
Destination:	Select an Option	Time Condition:	Holiday ^	•
			All Time	e
			Office Time	
			Out of Office Time	
Press 1			Holiday	
Destination:	Select an Option 🗸	Time Condition:	Out of Holiday	•
			Out of Office Time or Holid	θ
			Office Time and Out of Holi	

Key Pressing Events

Note:

If you select "Specific time", you need to select the start time and the end time.

The frequency supports two options: By week and By Month, by default the specific time does not include the holidays.

Specific Time									
Time:	Sta	rt Tin	ne	0	- [End Ti	me	G	
Frequency:	() E	y We	ek 🤇		By Mo	nth			
	Ja	n	Feb	P	vlar	Apr			
	Ma	ay 🛛	Jun		Jul	Aug			
	Se	pt	Oct	ľ	Vov	Dec			
	• v	1	0	Day	/				
		Mor	n Tu	e	Wed	Thu	Fri	Sat	Sun
	1								
	2								
	3								
	4								
	5								
	6								
Excluding									
Holidays:									
			Cance	=		ок)			

Specific Time

Custom Key Event

Users can create custom IVR key press events, vastly increasing the options a business can provide to its customers and improving customer relations and accessibility.

This new feature supports the following:

- Up to 100 custom key press events
- Each key combination can contain up to 8 characters (numbers and star (*) only)
- Supports Time Conditions
- Different custom keys can have the same Destination and Time Condition

1 Note

Note: IVR option Dial Other Extensions will be disabled if using custom IVR keys.

LANGUAGE SETTINGS FOR VOICE PROMPT

The UCM630X supports multiple languages in Web GUI as well as system voice prompt. Currently, there are 16 languages supported in system voice prompt: English (United States), Arabic, Chinese, Dutch, English (United Kingdom), French, German, Greek, Hebrew, Italian, Polish, Portuguese, Russian, Spanish, Catalan, Swedish and Turkish.

English (United States) and Chinese voice prompts are built in with the UCM630X already. The other languages provided by Grandstream can be downloaded and installed from the UCM630X Web GUI directly. Additionally, users could customize their own voice prompts, package them and upload to the

Language settings for voice prompt can be accessed under Web GUI **>PBX Settings >Voice Prompt >Language Settings**.

Download and Install Voice Prompt Package

To download and install voice prompt package in different languages from UCM630X Web GUI, click on "Add Voice Prompt Package" button.

S UCM6302					
Menus	÷	Voice Prompt			
n System Status	~	Language Settings	Custom Prompt	User Name Pron	npt
🛃 Extension / Trunk	~				
🗳 Call Features	~	+ Add Voice Prompt	Package 🔔 Uplo	ad	
PBX Settings	^	Voice Prompt Package L	ist		
General Settings		LANGUAGE		OPTIONS	
SIP Settings		English : en			
IAX Settings		○ 中文:zh		\otimes	
RTP Settings					
Music On Hold					
Voice Prompt					
Call Failure Tone S	et				

Language Settings for Voice Prompt

A new dialog window of voice prompt package list will be displayed. Users can see the version number (latest version available V.S. current installed version), package size and options to upgrade or download the language.

ails			
VOICE PROMPT PACKAGE LIST	VERSION (REMOTE / LOCAL)	SIZE	OPTIONS
British English	1.9/-	4.2M	<u>ب</u>
Deutsch	1.8/-	4.2M	4
English	1.11/1.8	6.0M	۲
Español	1.10/-	4.4M	Ŧ
Español(Català)	1.8/-	3.1M	Ŧ
Español(Españo)	1.8/-	4.2M	4
Ελληνικά	1.8/-	4.4M	4
Français	1.8/-	4.1M	4
Italiano	1.8/-	4.0M	4

Voice Prompt Package List

Click on to download the language to the UCM630X. The installation will be automatically started once the downloading is finished.

Voi	ce Prompt				
Lang	uage Settings	Custom P	rompt	User Nam	e Prompt
	+ Add Voice Pron	npt Package	1. Upload		
V	oice Prompt Packa	ge List			
	LANGUAGE		0	PTIONS	
	O English : en				
	〇 中文 : zh				
	British English	n : en_GB		⊗	

New Voice Prompt Language Added

A new language option will be displayed after successfully installed. Users then could select it to apply in the UCM630X system voice prompt or delete it from the UCM630X.

Customize Specific Prompt

On the UCM630X, if the user needs to replace some specific customized prompt, the user can upload a single specific customized prompt from Web GUI->PBX Settings->Voice Prompt->Language Settings and click on "Upload" instead of the entire language pack.

Upload Voice Prompt Package					
Choose File to Upload :	Choose File to Upload				
(Cancel Upload				

Upload Single Voice Prompt for Entire Language Pack

Username Prompt Customization

There are two ways to customize/set new username prompt:

Upload Username Prompt File from Web GUI

1. First, Users should have a pre-recorded file respecting the following format:

• PCM encoded / 16 bits / 8000Hz mono.

• In .tar/.tar.gz/.tgz format

• File size under 30M.

• Filename must be set as the extension number with 18 characters max. For example, the recorded file name 1000.wav will be used for extension 1000.

- 2. Go under web GUI **PBX Settings** → **Voice Prompt** → **Username Prompt** and click on "**Upload**" button.
- 3. Select the recorded file to upload it and press Save and Apply Settings.
- Click on to record again the username prompt.
- Click on to play recorded username prompt.
- Select username prompts and press to delete specific file or select multiple files for deletion using the button "Delete".

Record Username via Voicemail Menu

The second option to record username is using voicemail menu, please follow below steps:

- Dial *98 to access the voicemail
- After entering the desired extension and voicemail password, dial "0" to enter the recordings menu and then "3" to record a name.

Another option is that each user can record their own name by following below steps:

- The user dials *97 to access his/her voicemail
- After entering the voicemail password, the user can press "0" to enter the recordings menu and then "3" to record his name.

VOICEMAIL

Configure Voicemail

If the voicemail is enabled for UCM630X extensions, the configurations of the voicemail can be globally set up and managed under Web GUI \rightarrow Call Features \rightarrow Voicemail.

* Max Greeting Time (s):	60	
Dial "0" for Operator:		
Operator Type:	Extension	
Operator Extension :	None	
* Max Messages Per Folder :	50	
Max Message Time:	15 minutes	~
Min Effective Message Time:	3 seconds	~
Announce Message Caller-ID :		
Announce Message Duration:		
Play Envelope :		
Play Most Recent First:		
Allow User Review:		
Voicemail Remote Access:		
Forward Voicemail to Peered		
UCMs:		
Voicemail Password :		
Format:	GSM	~

Voicemail Settings

Max Greeting Time (s)	Configure the maximum number of seconds for the voicemail greeting. The default setting is 60 seconds.	
Dial '0' For Operator	If enabled, the caller can press 0 to exit the voicemail application and connect to the configured operator's extension.	
Operator Type	Configure the operator type; either an extension or a ring group.	
Operator Extension	Select the operator extension, which will be dialed when users press 0 to exit voicemail application. The operator extension can also be used in IVR.	
Max Messages Per Folder	Configure the maximum number of messages per folder in users' voicemail. The valid range 10 to 1000. The default setting is 50.	
	 Select the maximum duration of the voicemail message. The message will not be recorded if the duration exceeds the max message time. The default setting is 15 minutes. The available options are: 1 minute 2 minutes 5 minutes 15 minutes 30 minutes Unlimited 	
s Min Effective Message Time	 Configure the minimum duration (in seconds) of a voicemail message. Messages will be automatically deleted if the duration is shorter than the Min Message Time. The default setting is 3 seconds. The available options are: No minimum 1 second 2 seconds 3 seconds 4 seconds 5 seconds Note: Silence and noise duration are not counted in message time. 	

Announce Message Caller-ID	If enabled, the caller ID of the user who has left the message will be announced at the beginning of the voicemail message. The default setting is "No".
Announce Message Duration	If enabled, the message duration will be announced at the beginning of the voicemail message. The default setting is "No".
Play Envelope	If enabled, a brief introduction (received time, received from, and etc.) of each message will be played when accessed from the voicemail application. The default setting is "Yes".

Play Most Recent First	If enabled, it will play the most recent message first.
Allow User Review	If enabled, users can review the message following the IVR before sending.
	If enabled, external callers routed by DID and reaching VM will be prompted by the UCM with 2 options: • <i>Press 1 to leave a message</i> .
Voicemail Remote	To leave a message for the extension reached by DID.
Access	• Press 2 to access voicemail management system.
	This will allow caller to access any extension VM after entering extension number and its VM password.
	Note: This option applies to inbound call routed by DID only.
	The default setting is "Disabled".
Forward Voicemail	Enables the forwarding of voicemail to remote extensions on peered SIP trunks.
to Peered UCMs	The default setting is "Disabled".
Voicemail Password	Configures the default voicemail password that will be used when an extension is reset.
Format	Warning: WAV files take up significantly more storage space than GSM files.

Table 77: Voicemail Settings

Resetting an extension will reset Voicemail Password, Send Voicemail to Email, and Keep Voicemail after Emailing values to default. Previous custom voicemail prompts and messages will be deleted.

Access Voicemail

If the voicemail is enabled for UCM630X extensions, the users can dial the voicemail access number (by default *97) to access their extension's voicemail. The users will be prompted to enter the voicemail password and then can enter digits from the phone keypad to navigate in the IVR menu for different options.

Otherwise the user can dial the voicemail access code (by default *98) followed by the extension number and password in order to access to that specific extension's voicemail.

Main Menu	Sub Menu 1	Sub Menu 2
1 – New messages	3 - Advanced options	1 - Send a reply
		2 - Call the person who sent this message

		3 - Hear the message envelop
		4 - Leave a message
		* - Return to the main menu
	5 - Repeat the current message	
	7 - Delete this message	
	8 - Forward the message to another user	
	9 – Save	
	* - Help	
	# - Exit	
	0 - New messages	
	1 - Old messages	
2 – Change folders	2 - Work messages	
	3 - Family messages	
	4 - Friend messages	
	# - Cancel	
	1 - Send a reply	
	2 - Call the person who sent this message	
3 – Advanced options	3 - Hear the message envelop	
	4 - Leave a message	
	* - Return to the main menu	
0 – Mailbox options		1 - Accept this recording
	1 - Record your unavailable message	2 - Listen to it
		3 - Re-record your message
	2 - Record your busy message	1 - Accept this recording

	2 - Listen to it
	3 - Re-record your message
	1 - Accept this recording
3 - Record your name	2 - Listen to it
	3 - Re-record your message
	1 - Accept this recording
4 - Record temporary greeting	2 - Listen to it
	3 - Re-record your message
5 - Change your password	
* - Return to the main menu	

Tips

- While listening to the voicemail, press * or # to rewind and forward the voice message, respectively. Each press will forward or rewind 3 seconds.
- Rewind can go back to the begining of the message while forward will not work when there are 3 seconds or less left in the voice message.
- Voice guidance will be automatically played when the voicemail is done playing.

Leaving Voicemail

If an extension has voicemail enabled under basic settings "Extension/Trunk \rightarrow Extensions \rightarrow Basic Settings" and after a ring timeout or user not available, the caller will be automatically redirected to the voicemail in order to leave a message on which case they can press # in order to submit the message.

In case if the caller is calling from an internal extension, they will be directly forwarded to the extension's voicemail box. But if the caller is calling from outside the system and the incoming call is routed by DID to the destination extension, then the caller will be prompted with the choice to either press1 to access voicemail management or press 2 to leave a message for the called extension. This feature could be useful for remote voicemail administration.

Voicemail Email Settings

The UCM630X can be configured to send the voicemail as attachment to Email. Click on "Voicemail Email Settings" button to configure the Email attributes and content.

Send Voicemail to Email	If enabled, voicemail will be sent to the user's email address. Note: SMTP server must be configured to use this option.
Keep Voicemail after Emailing	Enable this option if you want to keep recording files after the Email is sent. The default setting is Enable.

	Fill in the "Subject:" and "Message:" content, to be used in the Email when sending to the user. The template variables are:
	◦ \t: TAB
	• \${VM_NAME}: Recipient's first name and last name
Email Template	• \${VM_DUR}: The duration of the voicemail message
	• \${VM_MAILBOX}: The recipient's extension
	• \${VM_CALLERID}: The caller ID of the person who has left the message
	• \${VM_MSGNUM}: The number of messages in the mailbox
	• \${VM_DATE}: The date and time when the message is left. (Format: MM/dd/yyyy hh:mm:ss)

Table 79: Voicemail Email Settings

Voicemail Email Settings			
Send Voicemail to Email : Keep Voicemail after	 ✓ ✓ 		
Emailing: Email Template:	Email Template		

Voicemail Email Settings

Click on "Email Template" button to view the default template as an example.

Configure Voicemail Group

The UCM630X supports voicemail group and all the extensions added in the group will receive the voicemail to the group extension. The voicemail group can be configured under Web GUI \rightarrow Call Features \rightarrow Voicemail \rightarrow Voicemail Group. Click on "Add" to configure the group.

Voicemail Group

Extension	Enter the Voicemail Group Extension. The voicemail messages left to this extension will be forwarded to all the voicemail group members.
Name	Configure the Name to identify the voicemail group. Letters, digits, _ and - are allowed.
Voicemail Password	Configure the voicemail password for the users to check voicemail messages.
Email Address	Configure the Email address for the voicemail group extension.
Shared Voicemail Status	If enabled, voicemail group status can be monitored via BLF. Green indicates no unread voicemail, and red indicates existing unread voicemail.
Member	Select available mailboxes from the left list and add them to the right list. The extensions need to have voicemail enabled to be listed in available mailboxes list.
Busy Prompt	This voicemail prompt will be played when the callee is in another call or when he/she is in DND mode. Priority: Temporary Prompt > Busy Prompt/Unavailable Prompt > Greet Prompt

	Sound file must be PCM encoded, 16 bits at 8000Hz mono with mp3/wav format, or raw ulaw/alaw/gsm file with .mp3/.wav/.ulaw/.alaw/.gsm suffix. The file size must be less than 5MB.
Greet Prompt	This voicemail prompt will be played when the callee does not answer within their ring timeout period. Priority: Temporary Prompt > Busy Prompt/Unavailable Prompt > Greet Prompt Sound file must be PCM encoded, 16 bits at 8000Hz mono with mp3/wav format, or raw ulaw/alaw/gsm file with
	.mp3/.wav/.ulaw/.alaw/.gsm suffix. The file size must be less than 5MB. This voicemail prompt will be played in all scenarios when it is configured (unregistered, unanswered/ring timeout, busy, DND).
Temporary Prompt	Priority: Temporary Prompt > Busy Prompt/Unavailable Prompt > Greet Prompt
	Sound file must be PCM encoded, 16 bits at 8000Hz mono with mp3/wav format, or raw ulaw/alaw/gsm file with .mp3/.wav/.ulaw/.alaw/.gsm suffix. The file size must be less than 5MB.
Haquellable Provent	This voicemail prompt will be played when user enters voicemail. Priority: Temporary Prompt > Busy Prompt/Unavailable Prompt > Greet Prompt
Unavailable Prompt	Sound file must be PCM encoded, 16 bits at 8000Hz mono with mp3/wav format, or raw ulaw/alaw/gsm file with .mp3/.wav/.ulaw/.alaw/.gsm suffix. The file size must be less than 5MB.

RING GROUP

The UCM630X supports ring group feature with different ring strategies applied to the ring group members. This section describes the ring group configuration on the UCM630X.

Configure Ring Group

Ring group settings can be accessed via Web GUI→Call Features→Ring Group.

+ Add EXTENSION \$ NAME \$ STRATEGY MEMBERS MESSAGE OPTIONS 6400 TechSupport Ring in Order 1000 1001 1002 1003 1004 Messages: 0/0/0 C 100	Ring Group					
	+ Add					
6400 TechSupport Ring in Order 1000 1001 1002 1003 1004 Messages: 0/0/0	EXTENSION \$	NAME \$	STRATEGY	MEMBERS	MESSAGE	OPTIONS
	6400	TechSupport	Ring in Order	1000 1001 1002 1003 1004	Messages: 0/0/0	r 💼

• Click on to edit the ring group. The following table shows the ring group configuration parameters.

• Click on to delete the ring group.

Ring Group Name	Configure ring group name to identify the ring group. Letters, digits, _ and - are allowed.
Extension	Configure the ring group extension.
Members	Select available users from the left side to the ring group member list on the right side. Click on \checkmark \checkmark to arrange the order.

LDAP Phonebook	Select available remote users from the left side to the ring group member list on the right side. Click on \land \lor to arrange the order. Note: LDAP Sync must be enabled first.
Ring Strategy	 Select the ring strategy. The default setting is "Ring in order". Ring Simultaneously: Ring all the members at the same time when there is incoming call to the ring group extension. If any of the member answers the call, it will stop ringing. Ring in Order: Ring the members with the order configured in ring group list. If the first member does not answer the call, it will stop ringing the first member and start ringing the second member.
Music On Hold	Select the "Music On Hold" Class of this Ring Group, "Music On Hold" can be managed from the "Music On Hold" panel on the left.
Custom Prompt	This option is to set a custom prompt for a ring group to announce to caller. Click on 'Prompt', it will direct the users to upload the customized voice prompts. Note: Users can also refer to the page PBX Settings > Voice Prompt > Custom Prompt, where they could record new prompt or upload prompt files.
Ring Timeout on Each Member	Configure the number of seconds to ring each member. If set to 0, it will keep ringing. The default setting is 60 seconds. Note: The actual ring timeout might be overridden by users if the phone has ring timeout settings as well.
Auto Record	If enabled, calls on this ring group will be automatically recorded. The default setting is No. The recording files can be accessed from WebGUI -> CDR -> Recording Files.
Endpoint Call Forwarding Support	 This allows the UCM to work with endpoint-configured call forwarding settings to redirect calls to ring group. For example, if a member wants to receive calls to the ring group on his mobile phone, he will have to set his endpoint's call forwarding settings to his mobile number. By default, it is disabled. However, this feature has the following limitations: This feature will work only when call forwarding is configured on endpoints, not on the UCM. If the forwarded call goes through an analog trunk, and polarity reversal is disabled, the other ring group members will no longer receive the call after it is forwarded. If the forwarded call goes through a VoIP trunk, and the outbound route for it is PIN-protected and requires authentication, the other ring group members will no longer receive the call hits voicemail, the other ring group members will no longer receive the call.
Replace Display Name	If enabled, the UCM will replace the caller display name with the Ring Group name the caller know whether the call is incoming from a direct extension or a Ring Group.
Skip Busy Agent	If enabled, skip busy agents regardless of call waiting settings.
Enable Destination	If enabled, users could select extension, voicemail, ring group, IVR, call queue, voicemail group as the destination if the call to the ring group has no answer. Secret and Email address are required if voicemail is selected as the destination.
Default Destination	The call would be routed to this destination if no one in this ring group answers the call. Note : Users can now set the voicemail of ring groups as routing destinations and IVR key press event destinations and to do so ring group must have their Default Destination set to Voicemail with Ring Group Extensions.

Voicemail	Whether to enable the voicemail for the ring group or not.
Voicemail Password	Configure the voicemail password (only numbers).
Email Address	Fill in the user's Email address (s), the voice message will be sent to this address (s).
Busy Prompt	This voicemail prompt will be played when the callee is in another call or is in DND mode. Priority: Temporary Prompt > Busy Prompt/Unavailable Prompt > Greet Prompt Sound file must be PCM encoded, 16 bits at 8000Hz mono with mp3/wav format, or raw ulaw/alaw/gsm file with .mp3/.wav/.ulaw/.alaw/.gsm suffix. The file size must be less than 5MB.
Greet Prompt	This voicemail prompt will be played when the callee does not answer within their ring timeout period. Priority: Temporary Prompt > Busy Prompt/Unavailable Prompt > Greet Prompt Sound file must be PCM encoded, 16 bits at 8000Hz mono with mp3/wav format, or raw ulaw/alaw/gsm file with .mp3/.wav/.ulaw/.alaw/.gsm suffix. The file size must be less than 5MB.
Temporary Prompt	This voicemail prompt well be played in all scenarios when it is configured (unregistered, unanswered/ring timeout, busy, DND). Priority: Temporary Prompt > Busy Prompt/Unavailable Prompt > Greet Prompt Sound file must be PCM encoded, 16 bits at 8000Hz mono with mp3/wav format, or raw ulaw/alaw/gsm file with .mp3/.wav/.ulaw/.alaw/.gsm suffix. The file size must be less than 5MB.
Unavailable Prompt	This voicemail prompt will only be played when the callee's extension is unregistered. Priority: Temporary Prompt > Busy Prompt/Unavailable Prompt > Greet Prompt Sound file must be PCM encoded, 16 bits at 8000Hz mono with mp3/wav format, or raw ulaw/alaw/gsm file with .mp3/.wav/.ulaw/.alaw/.gsm suffix. The file size must be less than 5MB.

Create New Ring Grou	ps
* Ring Group Name :	test
* Extension :	6400
Members:	27 items Available 3 items Selected
	Search Q Search Q
	1000
	1001
	□ 1007 ▼
LDAP Phonebook:	0 item Available 0 item Selected
	Search Q Search Q
	None None
	None None
	4
Ring Group Options	
Ring Strategy:	Ring in Order v
Music On Hold:	None ~
Custom Prompt:	None 🗸 Upload Audio File

Ring Group Configuration

Remote Extension in Ring Group

Remote extensions from the peer trunk of a remote UCM630X can be included in the ring group with local extension. An example of Ring Group with peer extensions is presented in the following:

- Creating SIP Peer Trunk between both UCM630X _A and UCM630X _B. SIP Trunk can be found under Web GUI→Extension/Trunk→VoIP Trunks.
 Also, please configure their Inbound/Outbound routes accordingly.
- 2. Click edit button in the menu , and check if **Sync** LDAP **Enable** is selected, this option will allow UCM630X_A update remote LDAP server automatically from peer UCM630X _B. In addition, **Sync LDAP Password** must match for UCM630X _A and UCM630X _B to sync LDAP contact

automatically. Port number can be anything between 0~65535, and use the outbound rule created in step 1 for the LDAP Outbound Rule option.

3. In case if LDAP server does not sync automatically, user can manually sync LDAP server. Under **VoIP Trunks** page, click sync button shown in the following figure to manually sync LDAP contacts from peer UCM630X.

VoIP Trunks						
VolP Trunks	Trunk Group					
+ Add SIP Trunk	+ Add IAX Trunk					
PROVIDER NAME \$		TERMINAL TYPE 💠	TYPE \$	HOSTNAME/IP \$	USERNAME \$	OPTIONS
Gstest		SIP	peer	192.168.5.112		🗹 🖤 🙆 🛅
			< <u>1</u>	>		Total: 1 10 / page > Goto 1

Manually Sync LDAP Server

4. Under **Ring Groups** setting page, click "Add". **Ring Groups** can be found under Web GUI→**Call Features→Ring Groups**.

5. If LDAP server is synced correctly, Available LDAP Numbers box will display available remote extensions that can be included in the current ring

group. Please also make sure the extensions in the peer UCM630X can be included into that UCM630X's LDAP contact.

Ring Group Name:	Ring Group Name				
* Extension:	6400				
Members:	106 Available Ex	tensions		•	Selected Extensions
	Search	Q		Search	0
	1000	^	<		
	1001		>		None
	1002				
	1003	-			
LDAP Phonebook :	15 Availal	ole LDAP		•	Selected LDAP
	Search	Q		Search	0
	5000(ou=ucm6510,dc=pbx,dc=c	om)	<		
	5001(ou=ucm6510,dc=pbx,dc=c	om)	>		None
	5002(ou=ucm6510,dc=pbx,dc=c	om)			
	5003(ou=ucm6510,dc=pbx,dc=c				

Ring Group Remote Extension

RESTRICT CALLS

Restrict calls is a feature that can be used to restrict calls between internal extensions besides those in the Allowed List.

This section describes the configuration of this feature in the Call Features->Restrict Calls page.

ame :	Sales				
estrict Calls between Extension :	V				
embers:	1 item	Available	[1 item	Selected
	Search	Q	<	Search	Q
	1001		>	1000	
			Ť		
		/	^		
			 		
			Ψ.		
owed List:	1 item	Available	_	1 item	Selected
	Search	~	<	Search	Q
	1000		>	1001	
			Ť		
			^		
			~		
			4		

Restrict Calls

Configure Restrict Calls

- Click on "Add" to add a rule for restrict calls.
- \circ Click on \square to edit the rule of restrict calls.
- Click on 💼 to delete the rule of restrict calls.

Name	Configure Restrict call's name
Restrict Calls between extensions	When enabled, members of the group cannot dial other extension, only the numbers in the Allowed List. By default it's enabled.
Members	Configure the members that will not be able to call any extensions besides those in the Allowed List.
Allowed list	Select the extensions that the Members list can be able to call.

PAGING AND INTERCOM GROUP

Paging and Intercom Group can be used to make an announcement over the speaker on a group of phones. Targeted phones will answer immediately using

speaker. The UCM630X paging and intercom can be used via feature code to a single extension or a paging/intercom group. This section describes the

configuration of paging/intercom group under Web GUI→Call Features→Paging/Intercom.

Configure Paging/Intercom Group

• Click on "Add" to add paging/intercom group.

◦ Click on ĭ to edit the paging/intercom group.

 \circ Click on $\overline{\mathbf{m}}$ to delete the paging/intercom group.

• Click on "Paging/Intercom Group Settings" to edit Alert-Info Header. This header will be included in the SIP INVITE message sent to the callee in paging/intercom call.

Configure Multicast Paging

* Name :	Name	
* Type:	Multicast Paging	~
* Extension:	6303	
Delayed Paging:	×	
Delay (s):	5	
* Maximum Call Duration (s):	0	
Custom Prompt:	None	 Upload Audio File
* Multicast IP Address:	Configure multicast IP address	
* Port:	Configure the port number	

Multicast Paging

Name	Configure paging/intercom group name.
Туре	Select "Multicast Paging".
Extension	Configure the paging/intercom group extension.
Delayed Paging	If enabled, a caller can enter *82 before the paging group extension to start a delayed paging call. In a delayed paging call, the system will prompt the caller to record a message. Once the messaging is recorded and saved, and the configured delay has passed, the paging call will be sent out. When a paging group member answers the call, the recorded message will be played, and the call will end after it is finished playing.
Delay (s)	Configure the amount of delay in seconds after a message is recorded to send out the delayed paging call. Default is 5 seconds.
Multicast IP Address	The allowed multicast IP address range is 224.0.1.0 – 238.255.255.255. Note: This field appears only when "Type" is set to "Multicast Paging".
Maximum Call Duration	Specify the maximum call duration in seconds. The default value 0 means no limit.
Custom Prompt	This option is to set a custom prompt for a paging/intercom group to announce to caller. Click on 'Prompt', it will direct the users to upload the customized voice prompts. Note: Users can also refer to the page PBX Settings→Voice Prompt→Custom Prompt, where they could record new prompt or upload prompt files.
Multicast IP Address	Select which extensions are allowed to use the paging/intercom feature for this paging group.
Port	Specify port for multicast paging. Note: This field appears only when "Type" is set to "Multicast Paging".

Configure 2-way Intercom

Create New Paging/In	tercom Groups	
* Name :	Name	
* Type:	2-way Intercom]
* Extension:	Extension	
Auto Record :		
Replace Display Name :		
* Maximum Call Duration	0	
(s):		
Custom Prompt:	None v	🔥 Upload Audio File
Members:	22 items Available	0 item Selected
	Search Q	Search Q
	1000	
	Copyright © Grandstream Networks	s, Inc. 2020. All Rights Reserved.

2-way Intercom

Name	Configure paging/intercom group name.
Туре	Select "2-way Intercom".
Extension	Configure the paging/intercom group extension.
Auto Record	Enable this option to record in WAV format.
Replace Display Name	If enabled, the UCM will replace the caller display name with Paging/Intercom name.
Maximum Call Duration	Specify the maximum call duration in seconds. The default value 0 means no limit.
Custom Prompt	This option is to set a custom prompt for a paging/intercom group to announce to caller. Click on 'Prompt', it will direct the users to upload the customized voice prompts. Note: Users can also refer to the page PBX Settings→Voice Prompt→Custom Prompt, where they could record new prompt or upload prompt files.
Members	Select available users from the left side to the paging/intercom group member list on the right.
Paging/Intercom Whitelist	Select which extensions are allowed to use the paging/intercom feature for this paging group.

Configure 1-way Paging

Create New Paging/Intercom	Groups					
• Name :	Name					
• Type:	1-way Paging			~		
• Extension :	6300					
Auto Record :						
Delayed Paging:						
Replace Display Name:						
• Maximum Call Duration (s):	0					
Custom Prompt:	None			Y Upload Audio	File	
Members:	7 items	Available		0 item	Selected	
	Search	Q		Search	Q	
	1000					
	1001		<			
	1002			None	2	
	1003					
	1004	-				
Paging/Intercom Whitelist:	7 items	Available		0 item	Selected	
	Search	Q		Search	Q	
	1000	A	<			
	1001		< >	Non		
	1002					
	1003					
	1004	-				

1-way Paging

Name	Configure paging/intercom group name.
Туре	Select "1-way Paging".
Extension	Configure the paging/intercom group extension.
Video Broadcast	If checked, video paging will be supported. If the caller sends a video page, the paging group members will be able to receive and view the video.
Auto Record	Enable this option to record in WAV format.
Delayed Paging	Allows the announcement to be played after the configured delay paging. If there are many messages, they will be played in sequence.
LaggedTime(seconds)	Set the delay paging duration, the default is 5 seconds.
Replace Display Name	If enabled, the UCM will replace the caller display name with Paging/Intercom name.
Maximum Call Duration	Specify the maximum call duration in seconds. The default value 0 means no limit.
Custom Prompt	This option is to set a custom prompt for a paging/intercom group to announce to caller. Click on 'Prompt', it will direct the users to upload the customized voice prompts. Note : Users can also refer to the page PBX Settings - Voice Prompt - Custom Prompt , where they could record new prompt or upload prompt files.
Members	Select available users from the left side to the paging/intercom group member list on the right.
Paging/Intercom Whitelist	Select which extensions are allowed to use the paging/intercom feature for this paging group.

In case the user wants to broadcast a video, these requirements should be respected.

- H.264 video encoding
- .mkv or .tar/.tgz/tar.gz format
- MKV files must be 30 MB file or less
- Compressed files (.tar/.tgz/tar.gz) must be 50 MB or less.
- File name can only contain alphanumeric characters, hyphens (-) and period (.)

If Auto Record is enabled, recorded video pages will be saved in MKV file format. Saved recordings can be found in the $CDR \rightarrow Recordings \rightarrow Video$ Recordings page.

Configure Announcement Paging

Create New Paging/Intercom Groups				
Enable:				
* Name :	Name]	
* Type:	Announcement Paging	~]	
Extension:	announcement_paging1			
Custom Prompt:	None	v	🔥 Upload Audio File	
Repeat:				
* Date :	2019-11-08]	
* Time:	06:55	G]	
Transmission Method :	Unicast	~]	
Members:	30 items Available		0 item Selected	
	Search Q		Search Q	
	1000		,	
	1001	<		
	1002	>	None	
	1003			
	☐ 1004			

Enable	Enable/Disable Announcement Paging.
Name	Configure announcement group name.
Туре	Select "Announcement Paging"
Extension	Extension
Video Broadcast	If checked, video paging will be supported. If the caller sends a video page, the paging group members will be able to receive and view the video.

Transmission Method	Configure Announcement Paging transmission method. Unicast: Depending on members selection. Multicast: Depending on Multicast IP address and Port
Maximum Call Duration (s)	The maximum allowed duration of a call in seconds. Default value is 0 (no limit).
Announcement File	Configures an audio/video file to play to the paging members in this group.
Play Count	Set the number of times to play the audio/video file in this announcement paging. To ensure the intended playback amount of the configured announcements, please set an appropriate maximum paging duration.
Repeat	If enabled, the announcement page will be repeated for the selected weekdays.
Date	Configure Announcement Paging Date.
Time	Configure Announcement Paging Time.
Members	Select available users from the left side to the paging/intercom group member list on the right.

Configure Private Intercom

Private Intercom feature allows initiating an intercom with the members of an intercom group. The members of the group will be able to hear the intercom initiator, but they will not be able to hear each others' voices. To configure this feature please navigate to the UCM web UI then go to Call Features \rightarrow Paging/Intercom then click on "Add".

Name	Configure paging/intercom group name.	
Туре	Select "Private Intercom".	
Extension	Configure the paging/intercom group extension.	
Auto Record	Enable this option to record in WAV format.	
Replace Display Name	If enabled, the UCM will replace the caller display name with Paging/Intercom name.	
Maximum Call Duration	Specify the maximum call duration in seconds. The default value 0 means no limit.	
Custom Prompt	This option is to set a custom prompt for a paging/intercom group to announce to caller. Click on 'Prompt', it will direct the users to upload the customized voice prompts. Note: Users can also refer to the page PBX Settings \rightarrow Voice Prompt \rightarrow Custom Prompt , where they could record new prompt or upload prompt files.	
Members	Select available users from the left side to the paging/intercom group member list on the right.	
Paging/Intercom Whitelist	Select which extensions are allowed to use the paging/intercom feature for this paging group.	

Private Intercom

Paging/Intercom Group Settings

Paging/Intercom Group	Settings		
Please go to Feature Codes Co	onfigure Paging/Intercom Feature Code.		
* Alert-info Header :	Intercom		
Custom Prompt:	None	~	🔥 Upload Audio File

Page/Intercom Group Settings

The UCM630X has pre-configured paging/intercom feature code. By default, the Paging Prefix is *81 and the Intercom Prefix is *80. To edit page/intercom feature code, click on "Feature Codes" in the "Paging/Intercom Group Settings" dialog. Or users could go to Web GUI \rightarrow Call Features \rightarrow Feature Codes directly.

Configure a Scheduled Paging/Intercom

Users can schedule paging/intercom calls by using the Schedule Paging/Intercom page. To schedule, click the Add button on the new page and configure the caller, the group to use, and the time to call out.

Paging/Intercom Grou	ps				
Paging/Intercom Groups	Scheduled Paging/Intercom				
+ Add 🗊 Delete					
CALLER \$	PAGING/INTERCOM GROUP \$	START TIME	TYPE	ACTION STATUS	OPTIONS
		No	o Data		

Schedule Paging/Intercom page

Caller	Configure the caller ID for the paging / intercom group.
Paging/Intercom Group	Select the paging / intercom group from the list of the available groups.
Start Time	Configure the start time of the scheduled paging / intercom call.
Туре	Select the type for the scheduled paging / intercom call. The available types are: Single time or Daily basis. Default is "Single".
Action Status	Display the action status of the scheduled paging / intercom call.

Table 86: Schedule Paging / Intercom Settings

Edit Scheduled Paging/Intercom: 9999			
* Caller:	1001	~	
* Paging/Intercom Group :	9999 test	~	
Type:	Single	~	
* Start Time :	2020-07-04 🛅 12:00	0	

Creating a scheduled paging/intercom call

OPERATOR PANEL

Configure Operator Panel

Operator Panel settings can be accessed via Web GUI→Call Features→Operator Panel.

The UCM630X supports the operator panel so that UCM extension can be used as admin to manage calls and activities such as extension status, call queue status, transfer, barge-in, hangup, etc. On Grandstream Wave client, it can display the extensions, ring group, voicemail, call queue, call park status under the management of the extension. This section describes how to configure the operator panel.

Ś	Call Features ^	Operator Panel		
	Multimedia Meeting	+ Add		
	IVR	NAME \$	ADMINISTRATOR	OPTIONS
	Voicemail Ring Groups	Operator Panel	1000	C 💼
	Restrict Calls		< 1 >	Total: 1 10 / page ~ Goto 1
	Paging/Intercom			
	Operator Panel			

Operator Panel Configuration Page

- Click on "Add" to create the operator panel.
- \circ Click on \square to edit the operator panel.
- \circ Click on $\overline{\mathbf{m}}$ to delete the operator panel.

Name	Configure the name for the operator panel created for identification purposes.
Administrator	Assign the administrator for the operator panel. It can be an extension, a extension group or a department. For the selected extension groups and departments, subsequent extensions will automatically become administrators.

Management Module	
Extension	The selected extensions will be supervised by the administrator, and you can choose extensions, extension groups, and departments. For the selected extension groups and departments, subsequent extensions will be automatically supervised by the administrator.
Ring Groups	The selected Ring Groups will be supervised by the administrator. If selecting "All", all Ring Groups and subsequent updates will be automatically supervised by the administrator.
Voicemail Groups	The selected Voicemail Groups will be supervised by the administrator. If selecting "All", all Voicemail Groups and subsequent

	updates will be automatically supervised by the administrator.
Call Queue	The selected Call Queue will be supervised by the administrator. If selecting "All", all Call Queue and subsequent updates will be automatically supervised by the administrator.
Parking Lot	The selected Parking Lot will be supervised by the administrator. If selecting "All", all Parking Lot and subsequent updates will be automatically supervised by the administrator.

CALL QUEUE

The UCM630X supports call queue by using static agents or dynamic agents. Call Queue system can accept more calls than the available agents. Incoming calls will be held until next representative is available in the system. This section describes the configuration of call queue under Web GUI \rightarrow Call Features \rightarrow Call Queue.

Configure Call Queue

Call queue settings can be accessed via Web GUI→Call Features→Call Queue.

Call Queue Queue Recordings + Add ま Switchboard III Call Queue Statistics Queue Common Settings EXTENSION * NAME * STRATEGY * QUEUE CHAIRMAN MEMBERS OPTIONS 6500 test Ring All 1000 1001 1002 1003 ··· III 0/ page × Goto 1	Call Queue					
EXTENSION \$ NAME \$ STRATEGY \$ QUEUE CHAIRMAN MEMBERS OPTIONS 6500 test Ring All 1000 1001 1003 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Call Queue	Queue Recordings				
6500 test Ring All 1000 1001 1002 1003 🗹 🛅	+ Add 🗮 Sv	witchboard <u>II</u> Call	Queue Statistics 🗘 Que	eue Common Settings		
	EXTENSION \$	NAME \$	STRATEGY 🗢	QUEUE CHAIRMAN	MEMBERS	OPTIONS
< 1 > Total: 1 10/page ~ Goto 1	6500	test	Ring All		1000 1001 1002 1003 **	• 🗹 🛅
				1 >	Total: 1	10 / page ~ Goto 1

Call Queue

UCM630X supports custom prompt feature in call queue. This custom prompt will active after the caller waits for a period of time in the Queue. Then caller could choose to leave a message/ transfer to default extension or keep waiting in the queue.

To configure this feature, please go to UCM Web GUI \rightarrow Call Features \rightarrow Call Queue \rightarrow Create New Queue/Edit Queue \rightarrow Queue Options \rightarrow set Enable Destination to Enter Destination with Voice Prompt. Users could configure the wait time with Voice Prompt Cycle.

- Click on "Add" to add call queue.
- Click on to edit the call queue. The call queue configuration parameters are listed in the table below.
- Click on to delete the call queue.

Basic Settings		
General		
Extension	Configure the call queue extension number.	
Name	Configure the call queue name to identify the call queue.	
Strategy	Select the strategy for the call queue.	
	• Ring All: Ring all available Agents simultaneously until one answers.	

	 Linear: Ring agents in the specified order. Least Recent: Ring the agent who has been called the least recently. Fewest Calls: Ring the agent with the fewest completed calls. Random: Ring a random agent. Round Robin: Ring the agents in Round Robin scheduling with memory.
Music On Hold	Select the Music On Hold class for the call queue. Note: Music On Hold classes can be managed from Web GUI→PBX Settings→Music On Hold .
Max Queue Length	Configure the maximum number of calls to be queued at once. This number does not include calls that have been connected with agents, only calls that are still in queue. When this maximum value is exceeded, the caller will hear a busy tone and be forwarded to the configured failover destination. Default value is 0 (unlimited).
Agent Rest Time (s)	Configure the amount of time in seconds after ending a call where the agent will not receive additional calls. Once this time has passed, the agent will be able to receive calls again. If set to 0, agents can receive additional calls immediately after ending a call.
Retry Time (s)	Configure the number of seconds to wait before ringing the next agent. The minimum is 1.
Agent Ring Time	Configure the number of seconds to ring an agent. The minimum is 5.
Auto Record	If enabled, the calls on the call queue will be automatically recorded. The recording files can be accessed in Queue Recordings under Web GUI \rightarrow Call Features \rightarrow Call Queue.
Welcome Prompt	
Enable	Enable the welcome prompt.
Custom Prompt	Initial tone that plays when the user dials the queue number. Note: The user can upload a custom prompt directly from this parameter.
Play Full Welcome Prompt	If enabled, queue agents will not be rung until after the welcome prompt is done playing. Otherwise, queue agents will be rung while the playing the welcome prompt.
Satisfaction Survey Prompt	

After a queue agent hangs up a call, a prompt will play asking the caller to rate their satisfaction on a scale of 1 to 5, with 5 being

Custom Prompt	the highest.
	Note: The user can upload a custom prompt directly from this parameter.
Max Wait Time	
Max Wait Time	Configures the amount of time a caller will be kept in queue before the the call is automatically routed to the configured Max Wait Time Destination. If set to 0, callers will be kept in queue indefinitely.
Destination	The call will be routed to this destination if no one in this queue answers the call.

Destination Prompt Cycle	
Enable	Enable Destination Prompt Cycle
Destination Prompt Cycle	Configure the voice prompt cycle (in seconds) of this call queue. When playing the voice prompt, you can press 1 to transfer to failover destination.
Custom Prompt	When playing a custom prompt, press 1 to enter the failover destination or continue waiting in queue. Note: The user can upload a custom prompt directly from this parameter.
Destination	After the specified amount of time, the caller will be prompted to press 1 to immediately get redirected to the configured failover destination.
	Advanced Settings
Virtual Queue	
Enable Virtual Queue	If enabled, system will enable a virtual queue for users waiting in queue.
Virtual Queue Mode	When in DTMF mode, pressing 2 will manually trigger virtual queue. When in Timeout mode, virtual queue will automatically be triggered when the configured Virtual Queue Period has passed. DTMF mode and Timeout mode require the caller to manually set a callback number. When in Auto mode, virtual queue will automatically be triggered when the configured Virtual Queue Period has passed. The callback number will automatically be set to the caller's detected CID number.
Virtual Queue Period (s)	The amount of time in seconds that must pass before virtual queue is offered to callers when using Timeout mode or Auto mode.
Virtual Queue Outbound Prefix	System will add this prefix to dialed numbers when calling back users.
Enable Virtual Queue Position Announcement	If enabled, the system will inform callers waiting in the queue of their positions in line.
Enable Virtual Queue Wait Time Announcement	If enabled, the estimated wait time for the call to get answered will periodically be announced to the caller.
Enable Virtual Queue Callback Timeout	If enabled, agents will have a set amount of time to answer a virtual queue callback.
Virtual Queue Welcome Prompt	Upload the file of your welcome prompt of the virtual queue.
Announcement Settings	
Enable Position Announcement	If enabled, the system will inform callers waiting in the queue of their positions in line.
Enable Wait Time	If enabled, the estimated wait time for the call to get answered will periodically be announced to the caller. Note: Wait time will

Announcement	not be announced if less than one minute.
Announcement Interval	The interval at which caller positions and estimated wait times will be announced.
Agent ID Announcement	If enabled, a system prompt coontaining the agent ID will be played to the caller when answered by an agent.
Empty Queue	
Leave When Empty	 Configure whether the callers will be disconnected from the queue or not if the queue has no agent anymore. The default setting is "Strict". Yes: Callers will be disconnected from the queue if all agents are paused or invalid. No: Never disconnect the callers from the queue when the queue is empty. Strict: Callers will be disconnected from the queue if all agents are paused, invalid or unavailable.
Dial in Empty Queue	 Configure whether the callers can dial into a call queue if the queue has no agent. The default setting is "No". Yes: Callers can always dial into a call queue. No: Callers cannot dial into a queue if all agents are paused or invalid. Strict: Callers cannot dial into a queue if the agents are paused, invalid or unavailable.
Failover Destination	Choose the destination where the call will be directed when the queue is empty or when all the agents are not logged in, here are the destinations that can be configured: Play Sound. Extension. Voicemail. Queues. Ring Group. Voicemail Group. IVR External Number.
CTI	
Enable Agent Login	Enabling agent login will cause the dynamic agents to be unavailable.
Queue Chairman	The queue chairman can log into his web portal to operate the queue.

Service Level Agreement (SLA)

Enable SLA	Toggles Service Level Agreement (SLA), which is percentage measurement of the queue group's ability to answer incoming calls within a defined amount of time. If a queue group's calculated SLA percentage is below the configured threshold value, alerts will be generated and sent out via email to the specified recipients. Example: The SLA goal is 80% of calls (Threshold) within 20 seconds (SLA Time). If less than 80% of queue calls are answered within 20 seconds, the specified users will be notified of it.
SLA Time (s)	Configures the amount of time in seconds that agents must answer incoming queue calls within to satisfy service quality requirements. Answering calls past this time will negatively affect the SLA measurement, and an alert will be generated once it hits below the specified SLA alert threshold. Supported values are 1 to 180. Default value is 20.

SLA Alert Email Notification	Enable SLA alert email notification.	
Alert Threshold (%)	Configures the SLA alert threshold. If the percentage of queue calls answered within the configured SLA Time go below this value, an alert email will be generated and sent to the configured recipients. Supported values are 1 to 100. Default value is 80.	
SLA Alert Interval (m)	Configures the minimum amount of time (in minutes) between alert sending. If a new alert is generated within this period, it will not be sent to recipients until the next alert interval. The valid range is from 1 to 120. The default value is 120.	
SLA Alert Email Template	The template of the SLA alert email notifications.	
Alert Email Recipients	Send SLA alert notifications to the configured alert email recipients. If a recipient does not have an email address configured, they will not receive the alert notifications.	
Other Settings		
Report Hold Time	If enabled, the UCM630X will report (to the agent) the duration of time of the call before the caller is connected to the agent. The default setting is "No".	
Replace Display Name	If enabled, the UCM will replace the caller display name with the Call Queue name so that the caller knows the call is incoming from a Call Queue.	
Enable Feature Codes	Enable feature codes option for call queue. For example, *83 is used for "Agent Pause"	
Autofill	Configure to enable autofill.	
Dynamic Login Password	If enabled, the configured PIN number is required for dynamic agent to log in. The default setting is disabled.	
Alert-Info	When present in an INVITE request, the Alert-info header field specifies an alternative ring tone to the UAS.	
Agents		
Static Agents	Go to "Agents" Tab and Select the available users to be the static agents in the call queue. Choose from the available users on the left to the static agents list on the right. Click on \blacktriangleleft or \succ to choose. And use UP and Down arrow to select the order of the agent within the call queue.	

Number of agents limitation:

To guarantee a high level of audio quality with the call queue feature, UCMs will limit the number of agents allowed to be assigned depending on the UCM

model used. If the user attempts to configure the number of static agents to be more than the maximum allowed number, a warning message will appear.

The following table lists the maximum number of agents for each UCM model:

UCM Model	Maximum Number of Agents in Call Queue
UCM6301	25

UCM Model	Maximum Number of Agents in Call Queue
UCM6302	50
UCM6304	80
UCM6308	160

Click on "Global Queue Settings" to configure Agent Login Extension Postfix and Agent Logout Extension Postfix. Once configured, users could log in the call queue as dynamic agent.

Dynamic Agent Login Settings	
Agent Login Code Suffix :	
Agent Logout Code Suffix:	
Example :	If 6500 is the queue extension,
	Agent Login Extension Suffix is *,
	Agent Logout Extension Suffix is **,
	dial 6500* to log in and 6500** to log out.



For example, if the call queue extension is 6500, Agent Login Extension Postfix is * and Agent Logout Extension Postfix is **, users could dial 6500* to login to the call queue as dynamic agent and dial 6500** to logout from the call queue. Dynamic agent does not need to be listed as static agent and can log in/log out at any time.

Call queue feature code "Agent Pause" and "Agent Unpause" can be configured under Web GUI→Call Features→Feature Codes. The default feature code is *83 for "Agent Pause" and *84 for "Agent Unpause".

Note: When dialing the "Agent Pause" feature code, users can specify the reason for it. The following reasons are available: (1) Lunch, (2) Hourly Break, (3) Backoffice, (4) Email, and (5) Wrap.

The agent can also dial the feature with the number of the reason of the pause. E.g., if the agent want to perform a pause for lunch, he/she can dial *831 directly instead of waiting for the IVR response.

Queue recordings are shown on the Call Queue page under "Queue Recordings" Tab. Click on ± to download the recording file in .wav format; click on
 to delete the recording file. To delete multiple recording files by one click, select several recording files to be deleted and click on "Delete Selected Recording Files" or click on "Delete All Recording Files" to delete all recording files.

Call Center Settings and Enhancements

UCM supports light weight call center features including virtual queue and position announcement, allowing the callers to know their position on the call

queue and giving them the option to either stay on the line waiting for their turn or activate a callback which will be initiated by the UCM one an agent is free.

To configure call center features, press 🛛 🖾 on an existing call queue and go under the advanced settings tab.

Following parameters are available:

Enable Virtual Queue	Enable virtual queue to activate call center features.
-------------------------	--

Virtual Queue Period	Configure the time in (s) after which the virtual queue will take effect and the menu will be presented to the caller to choose an option. Default is 20s.
Virtual Queue Mode	 Offered to caller after timeout: After the virtual queue period passes, the caller will enter the virtual call queue and be presented with a menu to choose an option, the choices are summarized below: Press * to set current number as callback number. Press 0 to set a callback number different than current caller number. Press # to keep waiting on the call queue. Triggered on user request: In this mode, the callers can activate the virtual queue by pressing 2, then they will be presented with the menu to choose an option as below: Press * to set current number as callback number. Press * to set current number as callback number. Press * to set current number as callback number. Press * to set current number as callback number. Press * to set current number as callback number. Press * to set current number as callback number.
Virtual Queue Outbound Prefix	System will add this prefix to dialed numbers when calling back users.
Enable Virtual Queue Timeout	When this option is enabled and after a caller registers a call back request on the virtual queue. While all the agents are busy, the UCM will call an agent once he/she is idle again, this timeout is used for how long the UCM continues calling the agent and if the agent doesn't answer the call then the callback request will timeout and expire.
Write Timeout	Configure the virtual queue callback timeout period in seconds.
Enable Virtual Queue Position Announcement	Enable the announcement of the caller's position periodically. Note: Queue position will now be announced to the caller upon entering the queue.
Position Announcement Interval	Configure the period of time in (s) during which the UCM will announce the caller's position in the call queue.
Enable Virtual Queue Wait Time	When enabled the UCM will announce the estimated queue wait time to callers if the estimated wait time is longer than 1 minute.

Announcement	
Queue Chairman	Select the extension to act as chairman of the queue (monitoring).
Virtual Queue Welcome Prompt	Click on "Upload Audio File" to upload the VQ welcome prompt.

	When enabled, statics agents can conveniently log in and out of a queue by configuring a programmable key on their phones as a shortcut.
	Notes:
Enable Agent	• This feature is currently available only for GXP21xx phones on firmware 1.0.9.18 or greater.
Login	• After enabling the feature, users need to set the option on GXP21XX phone under "Account \rightarrow SIP Settings \rightarrow Advanced
	Features→Special Feature" to "UCM Call Center". A softkey labeled "UCM-CC" will appear on the bottom of the phone's
	screen.
	• When this option is enabled, dynamic agent login will be no longer supported.
	• In case of concurrent registrations, changing agent status on one phone (login/logout) will be reflected on all phones.

Table 90: Call Center Parameters

Queue Auto fill enhancement:

The waiting callers are connecting with available members in a parallel fashion until there are no more available members or no more waiting callers.

For example, in a call queue with linear method, if there are two available agents, when two callers call in the queue at the same time, UCM will assign the two callers to each of the two available agents at the same time, rather than assigning the second caller to second available agent after the first agent answers the call from the first caller.

Call Queue Statistics

Along with call center features, users can also gather detailed call queue statistics allowing them to make better changes/decision to manage better the call distribution and handling based on time, agent, and queue.

To access call queue statistics, go to Web GUI -> Call Features -> Call Queue and click on "Call Queue Statistics", the following page will be displayed:

Call Queue Statistics

• Agent statistics: shows the number of calls and call-related information of agents;

- Queue Statistics: counts the number of calls in the queue and information such as calls, waiting, and callback;
- Agent satisfaction statistics used for user's rating of agents;
- Queue satisfaction statistics counts the score survey statistics.

The overview page performs seat statistics, queue statistics, seat satisfaction statistics, and queue satisfaction statistics according to the business. Agent statistics record the number of calls and call-related information of agents; queue counts the number of calls in the queue and information such as calls, waiting, and callback; agent satisfaction statistics are survey statistics based on user ratings of agents; queue satisfaction statistics are user-queue. The score survey statistics.

By selecting a time interval, administrators can get detailed statistics for agent(s) such as total calls, answered calls etc, as well as for the queue(s) such as ABANDONED CALLS also a detailed information for the queue's call log by clicking on **Options** →**Information** button and the below window will pop up:

Details								×	
Queue:	650	00		Total Calls	;:	3			
Answered Calls:	Calls: 1			Abandoned Calls: 2					
Answered Rate:	33 %		Average V	Vait Time :	00:00:03				
Total Calls A	nswei	red Calls	Abar	ndoned Calls					
DATE \$		CALLER ID 🗘		ABANDONED \$	WAIT TIME	÷	TALK TIME 👙		
2020-12-02 09:3	2020-12-02 09:38:09 2020-12-02 09:38:48		9:38:09 1005		Yes			00:00:00	
2020-12-02 09:3				Yes	00:00:00				
2020-12-02 09:3	2020-12-02 09:39:01			No	00:00:03		00:00:04		

Queue's call log details

User can download statistics on CSV format by clicking on the "Download", also the statistics can be cleared using "Reset Statistics" button.

The statistics can be automatically sent to a specific email address on a preconfigured Period, this can be done by clicking on "**Automatic Download**", and user will be directed to below page where he can configure the download period (Day/Week/Month) and the Email where the statistics will be sent (Email settings should be configured correctly):

1	Automatic Download
	Automatically send call queue statistics to the configured email address at the specified frequency and time.

Automatic Download :	✓	
Report Type:	All Overview 🗸 Agent Details	Login Record Pause Log
Automatic Download Period:	By Day ~ 1 ~	
Email :	GStest@gmail.com	Email Template

Automatic Download Settings – Queue Statistics

Significantly more information is now available UCM's queue statistics page. In addition to the information presented in previous firmware, users can now view a call log that displays calls to all agents and queues, a dynamic agent login/logout record, and a pause log. Statistics reports for these new pages can be obtained by pressing the Download button in the top left corner of the Call Queue Statistics page. The reports are in .CSV format and will be packaged into a

single tar.gz file upon download.

Agent Details is a call log that shows every call to each individual agent from all queues. The following information is available:

- Time the date and time the call was received.
- Agent the agent that was rung for the call.
- \circ Queue the queue that the call went to.
- Caller ID Number the CID of the caller
- Abandoned indicates whether the call was picked up or not by that specific agent. If the call rang several agents simultaneously, and this specific agent did not pick up the call, the call will be considered abandoned even if a different agent in the same queue picked it up.
- Wait Time the amount of time that the call was waiting in queue after dialing in.
- Talk Time the duration of the call after it was picked up by agent.

Overview Agent D	Details Login	Record Pause Log									
Statistics Report											
TIME \$	AGENT ≑	QUEUE 👙	CALLER ID NUMBER \$	ABANDONED ≑	WAIT TIME 🍦	TALK TIME 💠					
2019-11-08 10:56: 36	2000	6500	1000	No	00:00:05	00:00:29					
2019-11-08 11:09: 07	2000	6500	1000	No	00:00:07	00:01:51					
2019-11-08 11:18: 17	2000	6500	1000	Yes	00:00:04	00:00:00					

Agent details

Login Record is a report that shows the timestamps of dynamic agent logins and logouts and calculates the amount of time the dynamic agents were logged in. Dynamic agents are extensions that log in and out either via agent login/logout codes (configured in Global Queue Settings page) or by using the GXP21xx call queue softkey. A new record will be created only when an agent logs out. The following information is available:

- Agent the extension that logged in and out.
- Queue the queue that the extension logged in and out of.
- Login Time the time that the extension logged into the queue.
- Logout Time the time that the extension logged out of the queue.
- Login Duration the total length of time that the extension was logged in.

Statistics Report		Agent 🗸	Search	
AGENT \$	QUEUE \$	LOGIN TIME 💠	LOGOUT TIME \$	LOGIN DURATION 💠
2000	6500	2019-11-08 09:48:53	2019-11-08 09:53:00	00:04:07
2000	6500	2019-11-08 09:53:10	2019-11-08 09:55:22	00:02:12

Login Record

Pause Log is a report that shows the times of agent pauses and unpauses and calculates the amount of time that agents are paused. If an agent is part of several queues, an entry will be created for each queue. An entry will only be created after an agent unpauses. The following information is available:

• Agent – the extension that paused and unpaused.

• Queue – the queue that the agent is in.

- Pause Time the time that the agent paused.
- $\circ~$ Resume Time the time that the agent unpaused.
- Pause Duration the total length of time the agent was paused for.

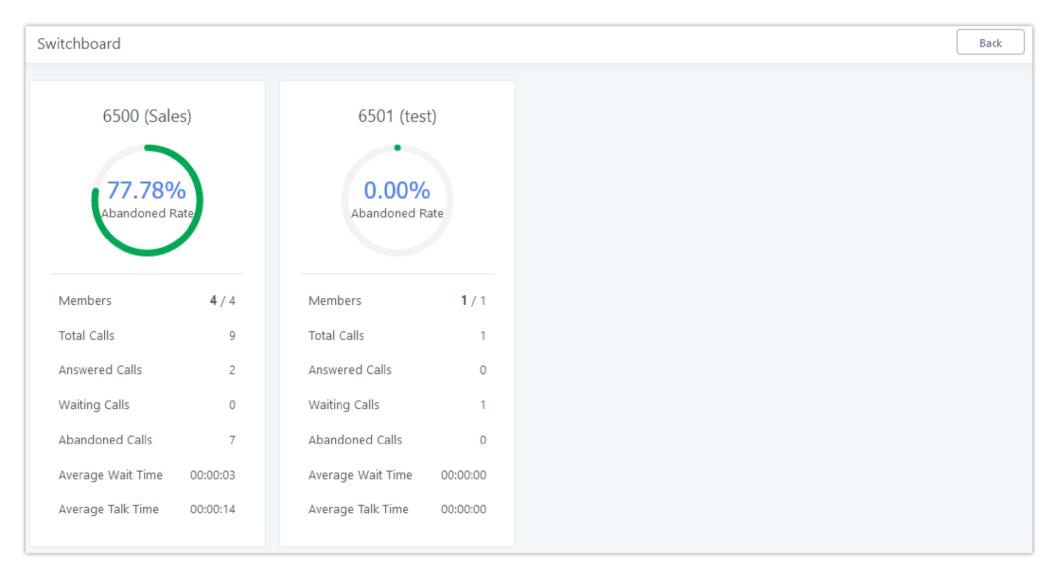
Overview	Agent Details	Login Record	Pause Log			
Statistics R	eport				Agent 🗸	Search
AGENT 👙		QUEUE \$		PAUSE TIME 🌲	RESUME TIME \$	PAUSE DURATION \$
2000		6500		2019-11-08 11:32:00	2019-11-08 11:33:33	00:01:33
2000	6500			2019-11-08 11:32:00	2019-11-08 11:33:33	00:01:33

Pause Log

Switchboard

Switchboard is a Web GUI tool for call queue monitoring and management, admin can access to it from the menu **Call Features→Call Queue** then press "Switchboard".

Following page will be displayed:



Page above summarizes the available queues statistics and if one of the queues is clicked the user will be directed to page below:

Call Queue Switchboard

The table below gives a brief description for the main menus:

Waiting	This menu shows the current waiting calls along with the caller id and the option to hang-up call by pressing on the button.
Proceedi ng	Shows the current established calls along with the caller id and the callee (agent) as well as the option to hang-up, transfer, add conference or barge-in the call.
Agents	Displays the list of agents in the queue and the extension status (idle, ringing, in use or unavailable) along with some basic call statistics and agent's mode (static or dynamic). Note: the dashboard will show the number of calls (answered and abandoned) of each agent. For dynamic agents, it will count the number of calls starting from the last login time.

Table 91: Switchboard Parameters

There are three different privilege levels for Call Queue management from the switchboard: Super Admin, Queue Chairman, and Queue Agent.

• Super Admin – Default admin of the UCM. Call queue privileges include being able to view and edit all queue agents, monitor, and execute actions for incoming and ongoing calls for each extension in Switchboard, and generate Call Queue reports to track performance.

• Queue Chairman – User appointed by Super Admin to monitor and manage an assigned queue extension via Switchboard. The Queue Chairman can log

into the UCM user portal with his extension number and assigned user password. To access the Switchboard, click on "Other Features" in the side menu

and click on "Call Queue". In the image below, User 1001 is the Queue Chairman appointed to manage Queue Extension 6500 and can see all the agents

of the queue in the Switchboard and their related information (Extension Status, Agent, Name, Answered, Abandoned, Login/Logout Time,

Pause/Resume Time, Talk Time, Agent Status, Pause Reason, and Options). The Chairman is also able to log out dynamic agents from call queues.

Queue Chairman

• Queue Agent – User appointed by Super Admin to be a member of a queue extension. A queue agent can log into the UCM user portal with his extension number and assigned user password. To access the Switchboard, click on "*Other Features*" in the side menu and click on "*Call Queue*". However, a queue agent can view and manage only his own calls and statistics, but not other agents' in the queue extension. In the image below, User 1000 is a queue agent and can see only his own information in the Switchboard.

< 9	Switchboar	d												
65	00 (test)													
Waiting								P	roceeding					
	STATUS	CALLER	CALLEE	POSITION	♦ WAITTI	ME	OPTIONS		STATUS	CALLER	CALLEE	TALK TH	ME	OPTIONS
	2	1000	6500	1	00:00:0)1	•				No Di	ata		
Agents														
	EXTENSION	STATUS	EXTEN	ISION	ANSWERED	ABANDONED	LOGIN /	LOGO	OUT TIME	PAUSE / RESUME 1	TIME	TALK TIME	AGENT STATUS	
	Ringing		1001		1	1						00:00:04	Static	



Queue Agent

Global Queue Settings

As explained before, under this section users can configure the feature codes for Dynamic agent login and logout, and also can now customize the keys for virtual queue options like shown below.

Global Queue Settings		
Dynamic Agent Login Setting	S	
Agent Login Code Suffix :	*	
Agent Logout Code Suffix:	**	
Example:	If 6500 is the queue extension,	
	Agent Login Extension Suffix is * ,	
	Agent Logout Extension Suffix is ** ,	
	dial 6500* to log in and 6500** to log out.	
Virtual Queue Callback Key S	ettings	
* Call Back Current Number :	*	
* Custom Callback Number:	0	
* Continue Waiting:	#	

Global Queue Settings

Dynamic Agent Login Settings			
Agent Login Code Suffix	Configure the code to dial after the queue extension to log into the queue (i.e. queue extension + suffix). If no suffix is configured, dynamic agents will not be able to log in		
Agent Logout Code Suffix	Configure the code to dial after the queue extension to log out of the queue (i.e. queue extension + suffix). If no suffix is configured, dynamic agents will not be able to log out.		
Virtual Queue Callback Key Settings			
Enable	Select whether to enable or disable virtual queue callback feature. By default it's disabled.		
Call Back Current Number	Press the feature key configured to set your current number as callback number.		
Custom Callback Number	Press these feature key configured to set a custom callback number.		
Continue Waiting	Press the feature key configured to continue waiting.		

Table 92: Global Queue Settings

PICKUP GROUPS

The UCM630X supports pickup group feature which allows users to pick up incoming calls for other extensions if they are in the same pickup group, by dialing "Pickup Extension" feature code (by default *8).

Configure Pickup Groups

Pickup Groups		
+ Add 🖓 Import 🕞 Export		
NAME \$	MEMBERS	OPTIONS
pickup	1000 1001 1002 1003	2 💼
	< <u>1</u> >	Total: 1 10 / page v Goto 1

Pickup Groups interface

Pickup groups can be configured via Web GUI→Call Features→Pickup Groups.

• Click on	to create a new pickup group.
• Click the	button to upload the pickup group information in CSV format.
• Click the	button to generate pickup group information in .CSV format.
• Click on	to edit the pickup group.

• Click on to delete the pickup group.

Select extensions from the list on the left side to the right side.

Pickup Groups				
* Name :	TechSupport			
Members :	2 Available Search Q		3 Search	Selected Q
	1005 Extension GroupAccountingDep	<	 1000 "John DOE" 1001 1002 	

Edit Pickup Group

Configure Pickup Feature Code

When picking up the call for the pickup group member, the user only needs to dial the pickup feature code. It is not necessary to add the extension number

after the pickup feature code. The pickup feature code is configurable under Web GUI→Call Features→Feature Codes.

The default feature code for call pickup extension is *8, otherwise if the person intending to pick up the call knows the ringing extension they can use **

followed by the extension number in order to perform the call pickup operation. The following figure shows where you can customize these features codes

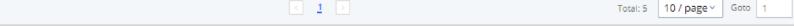
Feature Codes				
Feature Maps DND/Call Forwa	ard Feature Codes			
Reset All Default All				
* Voicemail Access Code:	*98		* My Voicemail :	*97
* Agent Pause :	*83	Z	* Agent Unpause :	*84
* Paging Prefix :	*81	V	* Intercom Prefix:	*80
* Blacklist Add :	*40	2	* Blacklist Remove :	*41
* Pickup on Ringing Prefix :	**		* Pickup In-call Prefix:	*45
* Pickup Extension :	*8		* Direct Dial Voicemail Prefix :	*
* Direct Dial Mobile Phone Prefix:	*88		* Call Completion Request :	*11
* Call Completion Cancel:	*12	Z	Enable Spy:	
* Listen Spy:	*54		* Whisper Spy:	*55
* Barge Spy:	*56		* Wakeup Service :	*36
* PMS Wakeup Service :	*35	V	* Update PMS Room Status :	*23
* Presence Status:	*48	2	* Dynamic Agent Logout :	*85
* Voicemail Group Access Code :	*99			

Edit Pickup Feature Code

MUSIC ON HOLD

Music On Hold settings can be accessed via Web GUI \rightarrow PBX Settings \rightarrow Music On Hold. In this page, users could configure music on hold class and upload music files. The "default" Music On Hold class already has 5 audio files defined for users to use.

Manage Music On Hold			
+ Add 🛃 Download All Music On Hold			
Music on Hold Playlists : Default	· C		
Record Î Delete ① Upload			
DISABLED/ENABLED		SOUND FILE	OPTIONS
		macroform-cold_day.wav	⊥ 🗇
		macroform-robot_dity.wav	⊥ 🗇
		macroform-the_simplicity.wav	⊥ 🗇
		manolo_camp-morning_coffee.wav	⊥ 🗊
		reno_project-system.wav	⊥ 🗊



Music On Hold Default Class

- Click on "Create New MOH Class" to add a new Music On Hold class.
- Click on to configure the MOH class sort method to be "Alpha" or "Random" for the sound files.
- Click on next to the selected Music On Hold class to delete this Music On Hold class.
- Click on to start uploading. Users can upload:
- Single files with 8KHz Mono Music file, or
- Music on hold files in a compressed package with .tar, .tar.gz and .tgz as the suffix. The file name can only be letters, digits, or special characters -_

- the size for the uploaded file should be less than 30M, the compressed file will be applied to the entire MoH.
- Users could also download all the music on hold files from UCM. In the Music On Hold page, click on

and the file will be downloaded to your local PC.

- Click on to disable it from the selected Music On Hold Class.
- Click on to enable it from the selected Music On Hold Class.
- Select the sound files and click on to delete all selected Music On Hold files.

The UCM630X allows Users to select the Music On Hold file from WebGUI to play it. The UCM630X will initiate a call to the selected extension and play this Music On Hold file once the call is answered.

Steps to play the Music On Hold file:

- 1. Click on the button for the Music On Hold file.
- 2. In the prompted window, select the extension to playback and click

Play Custom Prompt: macroform-cold_day.wav				
Note: The mp3 sound file will be transcoded to way format.				
File to Play:	macroform-cold_day.wav			
Extension for Playback:	1000 ~			
	Cancel			

Play Custom Prompt

3. The selected extension will ring.

.

4. Answer the call to listen to the music playback.

Users could also record their own Music On Hold to override an existing custom prompt, this can be done by following those steps:

- 1. Click on
- 2. A message of confirmation will pop up, as shown below.

Recording may prompt. P	/ overwrite a Proceed anyv	0
Cancel	ОК	

Information Prompt

3. Click

4. In the prompted window, select the extension to playback and click

Edit Custom Prompt: macroform-robot_dity.wav X						
Note: The mp3 sound file	will be transcoded to way format.					
File to Play:	macroform-robot_dity.wav					
Extension for	1000 ~					
Recording:						
	Cancel Record					

Record Custom Prompt

5. Answer the call and start to record your new music on hold.

6. Hangup the call and refresh Music On Hold page then you can listen to the new recorded file.

Ð

Once the MOH file is deleted, there are two ways to recover the music files.

• Users could download the MOH file from this link: http://downloads.asterisk.org/pub/telephony/sounds/releases/asterisk-moh-opsound-wav-2.03.tar.gz

After downloading and unzip the pack, users could then upload the music files to UCM.

• Factory reset could also recover the MOH file on the UCM.

BUSY CAMP-ON

The UCM630X supports busy camp-on/call completion feature that allows the PBX to camp on a called party and inform the caller as soon as the called party becomes available given the previous attempted call has failed.

The configuration and instructions on how to use busy camp-on/call completion feature can be found in the following guide:

https://documentation.grandstream.com/knowledge-base/busy-camp-on-2/

PRESENCE

UCM does support SIP presence feature which allows users to advertise their current availability status and willingness to receive calls, this way other users can use their phones in order to monitor the presence status of each user and decide whether to call them or not based on their advertised availability.

This feature is different than BLF which is used to monitor the dialog status for each extension (Ringing, Idle or Busy). Instead the SIP presence module gives more options for users to choose which state they want to put themselves in.

In order to configure the presence status of an extension from the web GUI, users can access the menu of configuration using one of the two following

methods:

• From admin account, go under the menu Extension/Trunk -> Extensions and choose the desired extension to edit then navigate to the "Features" tab.

OR

• From the User Portal, go under the menu Basic Information \rightarrow Extensions and navigate to the Features tab to have the following options.

Call Transfer					
Presence Status:	Available	~			
Available Away Cha	t Custom Presence Status	Unavailable			
Call Forward Unconditional:	None v		CFU Time Condition:	All Time	~
Call Forward No Answer:	None v		CFN Time Condition:	All Time	V
Call Forward Busy:	None v		CFB Time Condition :	All Time	~
Do Not Disturb :			* DND Time Condition :	All Time	
FWD Whitelist:		•			
	Æ	dd FWD Whitelist 🕀			

SIP Presence Configuration

Select which status to set from the presence status selection drop list, six options are available and below is a brief description of these states:

Available	The contact is online and can participate in conversations/phone calls.
Away	The contact is currently away (ex: for lunch break).
Chat	The contact has limited conversation flexibility and can only be reached via chat.
Do Not Disturb	The Contact is on DND (Do Not Disturb) mode.
Custom Presence Status	Please enter the presence status for this mode on the Web GUI. Up to 64 characters.
Unavailable	The contact is unreachable for the moment, please try to contact later.

Table 93: SIP Presence Status

Another option to set the presence status and which is more practical is using the feature code from the user's phone, one the user dials the feature code (default is *48), a prompt will be played to select which status they want to put themselves in, by pressing the corresponding key.

The feature code can be enabled and customized from the Web GUI→Call Features→Feature Codes.

* Voicemail Access Code:	*98	~	* My Voicemail:	*97	~
* Agent Pause:	*83		* Agent Unpause :	*84	
* Paging Prefix:	*81	~	*Intercom Prefix:	*80	~
* Blacklist Add:	*40		* Blacklist Remove:	*41	~
* Call Pickup on Ringing:	**	~	* Pickup In-call:	*45	
* Pickup Extension :	*8	~	* Direct Dial Voicemail Prefix:	*	~
* Direct Dial Mobile Phone	*88		* Call Completion Request:	*11	~
Prefix:					
* Call Completion Cancel:	*12		Enable Spy:		
* Listen Spy:	*54		* Whisper Spy:	*55	
* Barge Spy:	*56		* Wakeup Service :	*36	
* PMS Wakeup Service:	*35	~	* Update PMS Room Status:	*23	~
* Presence Status:	*48		* Dynamic Agent Logout:	*85	~

SIP Presence Feature Code

When a user does change his/her SIP presence status by making a call using presence feature code, the UCM will create a corresponding CDR entry showing the call as **Action type = PRSENCE_STATUS.**

CDI	R								Display Filte
y def	fault, this page	displays the CDR entries	from the current m	onth. Use the "Filter" button to	specify a time range.				
Reco	rding files are c	urrently stored in USB D	Disk . Do you want i	to change the location? This will	change the file storage location for basic	call, conference, queue, S	CA, and emergency call	recordings.	
-	Delete All	Delete Search R	esult (s) 🛃	Download All Records	Download Search Result (s)	🗘 Automatic Dow	nload		
	STATUS 🗘	CALL FROM 🗘	CALL TO \$	ACTION TYPE \$	START TIME 💠	CALL TIME 💠	TALK TIME 🌻	ACCOUNT C ODE 🗘	RECORDING FILE OPTION
Þ	S	"1000" 1000	*48	PRESENCE_STATUS	2019-12-11 17:55:33	0:00:13	0:00:13		
Þ	S	"admin" VFAX [T	998653221	DIAL	2019-12-11 17:51:09	0:00:22	0:00:22		
Þ	6	"1000" 1000	6500	QUEUE[6500]	2019-12-11 17:32:45	0:00:04	0:00:00		

Presence Status CDR

FOLLOW ME

Follow Me is a feature on the UCM630X that allows users to direct calls to other phone numbers and have them ring all at once or one after the other. Calls can be directed to users' home phone, office phone, mobile and etc. The calls will get to the user no matter where they are. Follow Me option can be found under extension settings page Web GUI→Extension/Trunk→Extensions.

To configure follow me:

1. Choose the extension and click on

2. Go to the Follow me tab to add destination numbers and enable the feature.

.

Edit Extension: 1000					
Basic Settings Med	ia Features	Specific Time	Follow Me		
Enable:				Skip Trunk Auth :	
Music On Hold Class :	Default		~	Confirm When Answering:	~
				Enable Destination :	
Use Callee DOD for Follo	w Me :				
Default Destination :	Voicemail				
Follow Me Numbers					
New Follow Me Numbe	er: 💿 Dial Local Exte	ension 🔿 Dial Extern	al Number		
		✓ for	30	(seconds)	
Dialing Order:	Ring after tryi	ng previous extension/	number 🔘 Ring al	ong with previous extension/numb	ber
	Add				
EXTENSION					OPTIONS
1002 for 30 (seco	onds)			8	$\fbox{\ }\textcircled{\ }\textcircled{\ }\textcircled{\ }$

Edit Follow Me

3. Click on to add local extensions or external numbers to be called after ringing the extension selected in the first step.

4. Once created, it will be displayed on the follow me list. And you can click on to delete the Follow Me.

The following table shows the Follow Me configuration parameters:

Enable	Configure to enable or disable Follow Me for this user.
Skip Trunk Auth	If external number is added in the Follow Me, please make sure this option is enabled or the "Skip Trunk Auth" option of the extension is enabled, otherwise the external Follow Me number cannot be reached.
Music On Hold Class	Configure the Music On Hold class that the caller would hear while tracking users
Confirm When	By default, it is enabled, and user will be asked to press 1 to accept the call or to press 2 to reject the call after answering a Follow Me call.
Answering	If it is disabled, the Follow Me call will be established once after the user answers.

Enable

Destination

When enabled, the call will be routed to the default destination if no one in the Follow Me extensions answers the call.

	Configure the destination if no one in the Follow Me extensions answers the call. The available options are:
	Extension
	Voicemail
Default	Queues
Destination	Ring Group
	Voicemail Group
	IVR
	External Number
Follow Me	The added numbers are listed here. Click on to arrange the order. Click on to delete the number. Click on
Numbers	to add new numbers.
New Follow Me Number	Add a new Follow Me number which could be a 'Local Extension' or 'External Number'. The selected dial plan should have permissions to dial the defined external number.
1 unioci	
Dialing Order	Select the order in which the Follow Me destinations will be dialed to reach the user: ring all at once or ring one after the other.

Table 94: Follow Me Settings

Click on "Follow Me Options" under Web GUI -> Extension/Trunk -> Extension page to enable or disable the options listed in the following table.

Playback Incoming Status Message	If enabled, the PBX will playback the incoming status message before starting the Follow Me steps.
Record the Caller's Name	If enabled, the PBX will record the caller's name from the phone so it can be announced to the callee in each step.
Playback Unreachable Status Message	If enabled, the PBX will playback the unreachable status message to the caller if the callee cannot be reached.

SPEED DIAL

Add Speed Dial

The UCM630X supports Speed Dial feature that allows users to call a certain destination by pressing one or four digits on the keypad. This creates a systemwide speed dial access for all the extensions on the UCM630X.

To enable Speed Dial, on the UCM630X Web GUI, go to page Web GUI→Call Features→Speed Dial.

User should first click on . Then decide from one digit up to four digits combination used for Speed Dial and select a dial destination from "Default Destination". The supported destinations include extension, voicemail, conference room, voicemail group, IVR, ring group, call queue, page group, DISA, Dial by Name and external number.

	Cre	ate New Speed I	Dial			
		Enable Destination: * Speed Dial Extension: Default Destination:	7 Extension peed Dial Destination			
Speed Dial						
+ Add 5 Import	🕞 Export					
SPEED DIAL EXTENSION 🗘	SPEED DIAL	DEF	AULT DESTINATION	DEFAULT DESTINATION	ON	OPTIONS
123	Enable	Ext	ension	1000		2 💼
999	Enable	Voi	cemail			2 💼
				< <u>1</u>	> Total: 2	10 / page ~ Goto 1
			List of Speed Dial			

List of Speed Dial

Import Speed Dial

The user can import speed dial entries from a csv file, this reduces the amount of configuring the same speed dial entries on different UCMs. To do this, please click on "*Import*" as the figure below shows.

Please use UTF-8 encoding when importing a CSV file. CSV files can be opened using programs such as Notepad and saved as a UTF-8 encoded file.

O Alert

Importing speed dial entries will overwrite the existing speed dials, if you wish to import new speed dial entries to the already existing ones, you will have to export them then combine them together in one file before you import it.

1 Note

The number of speed dial entries is limited to 100, therefore, the maximum number of entries you can import is 100. However, if the UCM had already more than a 100 entries, the limit will be set to that specific number.

Export Speed Dial

To export speed dial entries, please click on export as the screenshot below shows, then choose the location where to save the csv file.

Export Dial Speed

DISA

In many situations, the user will find the need to access his own IP PBX resources, but he is not physically near one of his extensions. However, he does have access to his own cell phone. In this case, we can use what is commonly known as DISA (Direct Inward System Access). Under this scenario, the user will be able to call from the outside, whether it is using his cell phone, pay phone, regular PSTN, etc. After calling into UCM630X, the user can then dial out via the SIP trunk or PSTN trunk connected to UCM630X as it is an internal extension.

The UCM630X supports DISA to be used in IVR or inbound route. Before using it, create new DISA under Web GUI→Call Features→DISA.

- Click on to add a new DISA.
- Click on to edit the DISA configuration.
- Click on to delete the DISA.

Create New DISA	
* Name:	Name
* Password:	
Permission :	Internal ×
* Response Timeout	10
* Digit Timeout:	5
Allow Hang-up : [
Replace Display Nam[

Create New DISA

The following table details the parameters to set and configure DISA feature on UCM630X PBX.



Password	Configure the password (digit only) required for the user to enter before using DISA to dial out. Note: The password must be at least 4 digits.
Permission	Configure the permission level for DISA. The available permissions are "Internal", "Local", "National" and "International" from the lowest level to the highest level. The default setting is "Internal". If the user tries to dial outbound calls after dialing into the DISA, the UCM630X will compared the DISA's permission level with the outbound route's privilege level. If the DISA's permission level is higher than (or equal to) the outbound route's privilege level, the call will be allowed to go through.
Response Timeout	Configure the maximum amount of time the UCM630X will wait before hanging up if the user dials an incomplete or invalid number. The default setting is 10 seconds.
Digit Timeout	Configure the maximum amount of time permitted between digits when the user is typing the extension. The default setting is 5 seconds.
Allow Hangup	If enabled, during an active call, users can enter the UCM630X Hangup feature code (by default it is *0) to disconnect the call or hang up directly. A new dial tone will be heard shortly for the user to make a new call. The default setting is "No".
Replace Display Name	If enabled, the UCM will replace the caller display name with the DISA name.

Once successfully created, users can configure the inbound route destination as "DISA" or IVR key event as "DISA". When dialing into DISA, users will be prompted with password first. After entering the correct password, a second dial tone will be heard for the users to dial out.

EMERGENCY

Emergency Calls

UCM supports configuration and management of numbers to be called in emergency situation, thus bypassing the regular outbound call routing process and allowing users in critical situation to dial out for emergency help with the possibility to have redundant trunks as point of exit in case one of the lines is down.

UCM63xx series are fully compliant with Kari's Law and Ray Baum's Act, for more information, please refer to the following links:

https://www.fcc.gov/mlts-911-requirements

In addition, Emergency calls can be automatically recorded by toggling on the new Auto Record and recordings can be viewed in the new Emergency

Recordings tab on the same page. Additionally, users can have these recordings be sent to the configured email address(es).

Email alerts are also supported after enabling the notification for the event under "Maintenance → System Events"

To configure emergency numbers, users need to follow below steps:

1. Navigate on the web GUI under "Call Features → Emergency Calls"

2. Click on to add a new emergency number.

3. Configure the required fields "Name, Emergency Number and Trunk(s) to be used to reach the number".

4. Save and apply the configuration.

Create New Emergency Call					
* Name :	911				
* Emergency Number :	911]			
Emergency Level :	1 - Not Urgent v				
Disable Hunt on Busy :					
Custom Prompt :	None v	Prompt			
* Use Trunks:					
* Members Notified :	11 items Available	1 item Selected			
	Search Q 1001 "John Doe"	Search Q			
	1002				
	1003				
	1004				
Strip:					
Prepend :					
Auto Record :	✓				
Send Recording File :	✓				
Email Address :	admin@domain.local	(\div)			

Emergency Number Configuration

The table below gives more description of the configuration Parameters when creating emergency numbers.

Name For example, "emergency911","emergency211" and etc.	
Emergency Number Config the emergency service number. For example,"911","211" and etc.	
Emergency Level Select the emergency level of the number. Level "3" means the most urgent.	

Disable Hunt on Busy	If this option is not enabled, when the lines of trunks which the coming emergency call routes by are completely occupied, the line-grabbing function will automatically cut off a line from all busy lines so that the coming emergency call can seize it for dialing out. This option is not enabled by default.
Custom Prompt	This option sets a custom prompt to be used as an announcement to the person receiving an emergency call. The file can be uploaded from the page "Custom Prompt". Click "Prompt" to add additional record.
Use Trunks	Select the trunks for the emergency call. Select one trunk at least and select five trunks at most.
Members Notified	Select the members who will be notified when an emergency call occurs.

Strip	Specify the number of digits that will be Stripped from the beginning of the dialed number before the call is placed via the selected trunk.			
Prepend	Specify the digits to be Pr is stripped.	epended before the call is plac	ed via the trunk. Those digits will	be prepended after the dialing number
Auto Record	When enabled, emergency call will be automatically recorded.			
Send Recording File	When enabled recording files will be sent to the configured email address.			
Email Address The email address to where the recording files will be sent.				
Emergency Calls Emergency Calls En + Add	nergency Recordings Emergen	cy Location Mapping		
NAME \$	EMERGENCY NUMBER \$	EMERGENCY LEVEL \$	DISABLE HUNT ON BUSY \$	OPTIONS
911	911	1	No	C 💼
		< 1 >		Total: 1 10 / page ~ Goto 1

911 Emergency Sample

Emergency Recordings

UCM6300 Series allows recording emergency calls and they can be found under WebUI \rightarrow Call Feature \rightarrow Emergency Calls \rightarrow Emergency Recordings

Emergency Recordings

Emergency Location Mapping

In compliance with Kari's Law and the Ray Baum's Act, UCM's Emergency Calls feature now supports

emergency location mapping. This will allow users to associate subnets with emergency location

identification numbers (ELINs), which can then be used by E911 service providers for example to determine

the location of callers. The new options can be found under **Call Features**→**Emergency**

Calls→Emergency Location Mapping.

Emergency Location Mapping

- ELIN: The emergency location identification number registered with the E911 provider. This number will be sent out as the emergency call's CID number.
- Subnet: The network subnet that the ELIN will be associated with. The ELIN that is sent to E911 providers is based on the subnet that a calling endpoint is registered from. Example: "xxx.xxx.xxx/24" or "xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx/64".
- Location: Location associated with the configured subnet. This is used for the UCM administrator's reference.
- Geolocation Routing: Toggles whether to include the Geolocation header in the emergency call SIP INVITE message. The Location field value will be used as the Geolocation header value.

0 **Important Note**

Please note that ELIN Mapping is supported only on peer trunks. It would not apply on register trunks.

CALLBACK

Callback is designed for users who often use their mobile phones to make long distance or international calls which may have high service charges. The callback feature provides an economic solution for reduce the cost from this.

The callback feature works as follows:

1. Configure a new callback on the UCM630X.

2. On the UCM630X, configure destination of the inbound route for analog trunk to callback.

3. Save and apply the settings.

4. The user calls the PSTN number of the UCM630X using the mobile phone, which goes to callback destination as specified in the inbound route.

5. Once the user hears the ringback tone from the mobile phone, hang up the call on the mobile phone.

6. The UCM630X will call back the user.

7. The user answers the call.

- 8. The call will be sent to DISA or IVR which directs the user to dial the destination number.
- 9. The user will be connected to the destination number.

In this way, the calls are placed and connected through trunks on the UCM630X instead of to the mobile phone directly. Therefore, the user will not be charged on mobile phone services for long distance or international calls.

To configure callback on the UCM630X, go to Web GUI \rightarrow Call Features \rightarrow Callback page and click on . Configuration parameters are listed in the following table.

Name	Configure a name to identify the Callback. (Enter at least two characters)
CallerID Pattern	Configure the pattern of the callers allowed to use this callback. The caller who places the inbound call needs to have the CallerID match this pattern so that the caller can get callback after hanging up the call. Note: If leaving as blank, all numbers are allowed to use this callback.
Outbound Prepend	Configure the prepend digits to be added at before dialing the outside number. The number with prepended digits will be used to match the outbound route. '-' is the connection character which will be ignored.
Delay Before Callback	Configure the number of seconds to be delayed before calling back the user.
Destination	 Configure the destination which the callback will direct the caller to. Two destinations are available: IVR DISA The caller can then enter the desired number to dial out via UCM630X trunk.

BLF AND EVENT LIST

BLF

The UCM630X supports BLF monitoring for extensions, ring group, call queue, conference room and parking lot. For example, on the user's phone, configure the parking lot number 701 as the BLF monitored number. When there is a parked call on 701, the LED for this BLF key will light up in red, meaning a call is parked against this parking lot. Pressing this BLF key can pick up the call from this parking lot.

On the Grandstream GXP series phones, the MPK supports "Call Park" mode, which can be used to park the call by configuring the MPK number as call park feature code (e.g., 700). MPK "Call Park" mode can also be used to monitor and pickup parked call if the MPK number is configured as parking lot (e.g., 701).

Event List

Besides BLF, users can also configure the phones to monitor event list. In this way, both local extensions on the same UCM630X and remote extensions on the VOIP trunk can be monitored. The event list setting is under Web GUI \rightarrow Call Features \rightarrow Event List.

• Click on "Add" to add a new event list.

• Sort selected extensions manually in the Eventlist

• Click on to edit the event list configuration.

URI	Configure the name of this event list (for example, office_event_list). Please note the URI name cannot be the same as the extension name on the UCM630X. The valid characters are letters, digits, _ and
Local Extensions	Select the available extensions/Extension Groups listed on the local UCM630X to be monitored in the event list.
Remote Extensions	If LDAP sync is enabled between the UCM630X and the peer UCM630X, the remote extensions will be listed under "Available Extensions". If not, manually enter the remote extensions under "Special Extensions" field.
Special Extensions	Manually enter the remote extensions in the peer/register trunk to be monitored in the event list. Valid format: 5000,5001,9000

URI:	test			
Event Type:	Dialog		~	
Local Extensions :	9 items	Available	3 items	Selected
	Search here	Q	Search here	Q
	1003 "Betty"		1000 "Mia"	
	1004	^	🗌 1001 "John"	
	1005 "Will"	<u>^</u>	1002 "Chris"	
	1006 "lala"	×		
	🗌 1007 "Kiki"	•		
Remote Extensions :	0 item	Available	0 item	Selected
	Search here	Q	Search here	Q
		>		
		^		
	None	^	None	
		×		
		4		
Special Extensions :				

Create New Event List

Remote extension monitoring works on the UCM630X via event list BLF, among Peer SIP trunks or Register SIP trunks (register to each other). Therefore, please properly configure SIP trunks on the UCM630X first before using remote BLF feature. Please note the SIP end points need support event list BLF in order to monitor remote extensions.

When an event list is created on the UCM630X and remote extensions are added to the list, the UCM630X will send out SIP SUBSCRIBE to the remote

UCM630X to obtain the remote extension status. When the SIP end points register and subscribe to the local UCM630X event list, it can obtain the remote

extension status from this event list. Once successfully configured, the event list page will show the status of total extension and subscribers for each event

list. Users can also select the event URI to check the monitored extension's status and the subscribers' details.

0

To configure LDAP sync, please go to UCM630X Web GUI→Extension/Trunk→VoIP Trunk. You will see "Sync LDAP Enable" option. Once enabled, please configure password information for the remote peer UCM630X to connect to the local UCM630X. Additional information such as port number, LDAP outbound rule, LDAP Dialed Prefix will also be required. Both the local UCM630X and remote UCM630X need enable LDAP sync option with the same password for successful connection and synchronization.

• Currently LDAP sync feature only works between two UCM630Xs.

• (Theoretically) Remote BLF monitoring will work when the remote PBX being monitored is non-UCM630X PBX. However, it might not work the other way around depending on whether the non-UCM630X PBX supports event list BLF or remote monitoring feature.

DIAL BY NAME

Dial by Name is a feature on the PBX that allows caller to search a person by first or last name via his/her phone's keypad. The administrator can define the Dial by Name directory including the desired extensions in the directory and the searching type by "first name" or "last name". After dialing in, the PBX IVR/Auto Attendant will guide the caller to spell the digits to find the person in the Dial by Name directory. This feature allows customers/clients to use the guided automatic system to contact the enterprise employees without having to know the extension number, which brings convenience and improves business image for the enterprise.

Dial by Name Configuration

The administrators can create the dial by name group under Web GUI→Call Features→Dial By Name.

Create New Dial By Na	ne
* Name :	Name
* Extension :	7101
Custom Prompt:	None 🗸 Vpload Audio File
Members :	30 items Available 0 item Selected
	Search Q 1000 1001 1002 > 1003 1004
LDAP Phonebook:	1 item Available 0 item Selected
	Search Q ou=GStest,dc=pbx,dc=com > None
Options	
* Prompt Wait Time :	5

Query Type:	 By Last Name + First Name By First Name + Last Name 	
Select Type :	By Order O By Menu	

Create Dial by Name Group

First Name :	John		Last Name :	DOE
Email Address :			* User Password :	*****
* Language:	Default	~	* Concurrent Registration	1

Configure Extension First Name and Last Name

1. Name

Enter a Name to identify the Dial by Name group.

2. Extension

Configure the direct dial extension for the Dial By Name group.

3. Custom Prompt

This option sets a custom prompt for directory to announce to a caller. The file can be uploaded from the page "Custom Prompt". Click "Upload Audio File" to add additional record.

4. Available Extensions/Selected Extensions

Select available extensions from the left side to the right side as the directory for the Dial By Name group. Only the selected extensions here can be reached by the Dial By Name IVR when dialing into this group. The extensions here must have a valid first name and last name configured under Web GUI→Extension/Trunk→Extensions in order to be searchable in Dial By Name directory through IVR. By specifying the extensions here, the administrators can make sure unscreened calls will not reach the company employee if he/she does not want to receive them directly.

5. Prompt Wait Time

Configure "Prompt Wait Time" for Dial By Name feature. During Dial By Name call, the caller will need to input the first letters of First/Last name before this wait time is reached. Otherwise, timeout will occur, and the call might hang up. The timeout range is between 3 and 60 seconds.

6. Query Type

Specify the query type. This defines how the caller will need to enter to search the directory.

By First Name: enter the first 3 digits of the first name to search the directory.

By Last Name: enter the first 3 digits of the last name to search the directory.

7. Select Type

Specify the select type on the searching result. The IVR will confirm the name/number for the party the caller would like to reach before dialing out.

By Order: After the caller enters the digits, the IVR will announce the first matching party's name and number. The caller can confirm and dial out if it is the destination party, or press * to listen to the next matching result if it is not the desired party to call.

By Menu: After the caller enters the digits, the IVR will announce 8 matching results. The caller can press number 1 to 8 to select and call or press 9 for results in next page.

The Dial by Name group can be used as the destination for inbound route and key pressing event for IVR. The group name defined here will show up in the destination list when configuring IVR and inbound route. If Dial by Name is set as a key pressing event for IVR, user could use '*' to exit from Dial by Name, then re-enter IVR and start a new event. The following example shows how to use this option.

Edit IVR: Test		
Basic Settings	Key Pressing Events	
Press 0:	Dial By Name 🗸 🗸	DialByNameG ~
Press 1:	Select an Opti 🗡	
Press 2:	Select an Opti 🗸	

Dial By Name Group In IVR Key Pressing Events

Edit Inbound Rule			Save
* Pattern :	-	CallerID Pattern :	Separate patterns by commas, such as ":
Disable This Route:		Prepend Trunk Name:	
Prepend User Defined Nam		Inbound Multiple Mode:	
Alert-info:	None ~	Dial Trunk :	
Privilege Level :	Internal ~	DID Destination :	
Allowed to seamless transfe			
Default Mode			
* Default Destination :	Dial By Name V	DialByNameGP1	~

Dial by Name Group In Inbound Rule

Please refer to [Username Prompt Customization] for Username Prompt Customization.

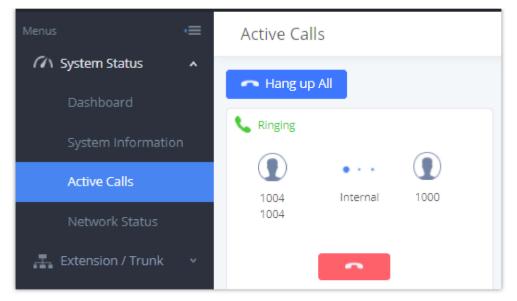
ACTIVE CALLS AND MONITOR

The active calls on the UCM630X are displayed in Web GUI -> System Status -> Active Calls page. Users can monitor the status, hang up the call as well as barge in the active calls in real time manner.

Active Calls Status

To view the status of active calls, navigate to Web GUI -> System Status -> Active Calls. The following figure shows extension 1004 is calling 1000. 1000 is

ringing.



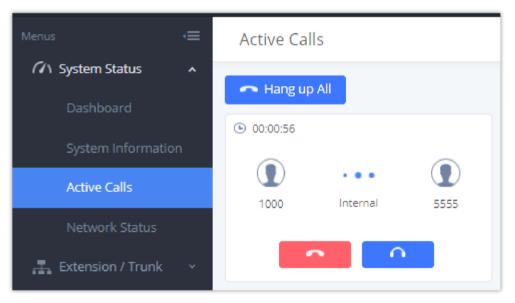
Status→PBX Status→Active Calls – Ringing

The following figure shows the call between 1000 and 5555 is established.

Menus 🗲	Active Calls
System Status	
Dashboard	- Hang up All
System Information	© 00:00:56
Active Calls	1000 Internal 5555
Network Status	
📲 Extension / Trunk 🗸	

Status→PBX Status→Active Calls – Call Established

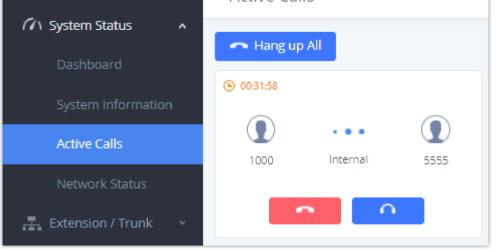
The gray color of the active call means the connection of call time is less than half an hour. It means this call is normal.





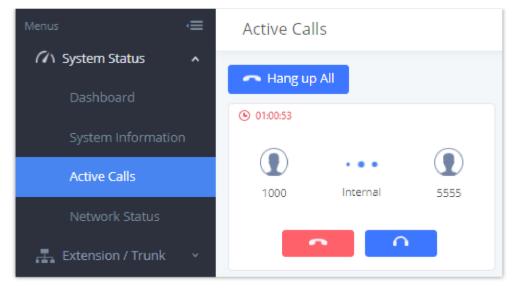
The orange color of the active call means the connection of call time is greater than half an hour but less than one hour. It means this call is a bit long.

Menus	•≡	Active Calls	



Call Connection between half an hour and one hour

The red color of the active call means the connection of call time is more than one hour. It means this call could be abnormal.



Call Connection more than one hour

Hang Up Active Calls

To hang up an active call, click on icon in the active call dialog. Users can also click on Hang up all to hang up all active calls.

Call Monitor

During an active call, click on icon

and the monitor dialog will pop up.

Call Barging		×
Monitor's Extension:	1001	
Monitored Extension :	1000 ~	
Spy Modes:	Listen v	
Require Confirmation :		
	Cancel Add	

Configure to Monitor an Active Call

In the "Monitor" dialog, configure the following to monitor an active call:

- 1. Enter an available extension for "Monitor's Extension" which will be used to monitor the active call.
- 2. "Monitored Extension" must be one of the parties in the active call to be monitored.
- 3. Select spy mode. There are three options in "Spy Mode".

In "Listen" mode, the extension monitoring the call can hear both parties in the active call but the audio of the user on this extension will not be heard by either party in the monitored active call.

• Whisper

In "Whisper" mode, the extension monitoring the call can hear both parties in the active call. The user on this extension can only talk to the selected monitored extension and he/she will not be heard by the other party in the active call. This can be usually used to supervise calls.

• Barge

In "Barge" mode, the extension monitoring the call can talk to both parties in the active call. The call will be established similar to three-way conference.

- 4. Enable or disable "Require Confirmation" option. If enabled, the confirmation of the invited monitor's extension is required before the active call can be monitored. This option can be used to avoid adding participant who has auto-answer configured, or call forwarded to voicemail.
- 5. Click on "Add". An INVITE will be sent to the monitor's extension. The monitor can answer the call and start monitoring. If "Require Confirmation" is enabled, the user will be asked to confirm to monitor the call.

Another way to monitor active calls is to dial the corresponding feature codes from an extension. Please refer to *[Table 100: UCM630X Feature Codes]* and *[Call Recording]* section for instructions.

CALL FEATURES

The UCM630X supports call recording, transfer, call forward, call park and other call features via feature code. This section lists all the feature codes in the UCM630X and describes how to use the call features.

Feature Codes

	Feature Maps
Blind Transfer	 Default code: #1 Enter the code during active call. After hearing "Transfer", you will hear dial tone. Enter the number to transfer to. Then the user will be disconnected, and transfer is completed. Options: Disable Allow Caller: Enable the feature code on caller side only. Allow Callee: Enable the feature code on caller side only. Allow Both: Enable the feature code on both caller and callee.
Attended Transfer	 Default code: *2 Enter the code during active call. After hearing "Transfer", you will hear the dial tone. Enter the number to transfer to and the user will be connected to this number. Hang up the call to complete the attended transfer. In case of the called party does not answer, users could press *0 to cancel the call and retrieve the first call leg. Options: Disable Allow Caller: Enable the feature code on caller side only. Allow Both: Enable the feature code on both caller and callee.

	• Default code: *44 (Disabled by default).
	• Seamless Transfer allows user to perform blind transfer using UCM feature code without having music on hold presented during the
Seamless Transfer	transfer process, it minimizes the interruption during transfer, making the process smooth and simple.
	• During an active call use the feature code (*44 by default) followed by the number you want to transfer to in order to perform the
	seamless transfer.
Disconnect	- Default code: *0
	- Enter the code during active call. It will disconnect the call.
	- Options:

	 Disable Allow Caller: Enable the feature code on caller side only. Allow Callee: Enable the feature code on callee side only. Allow Both: Enable the feature code on both caller and callee. 	
Call Park	 Default code: #72 Enter the code during active call to park the call. Options: Disable Allow Caller: Enable the feature code on caller side only. Allow Callee: Enable the feature code on callee side only. Allow Both: Enable the feature code on both caller and callee. 	
Start/Stop Call Recording	 -Default code: *3 - Enter the code followed by # or SEND to start recording the audio call and the UCM630X will mix the streams natively on the fly as the call is in progress. - Options: • Disable • Allow Caller: Enable the feature code on caller side only. • Allow Callee: Enable the feature code on caller and callee. 	
Enable Recording Whitelist	Enable the Recording Whitelist feature	
Recording Operation Whitelist	Select extension in the whitelist that can use the *3 recording function.	
Feature Code Digits Timeout	Set the maximum interval (ms) between digits for feature code activation	
DND/Call Forward		
Do Not Disturb (DND) Activate	Default code: *77	

Do Not Disturb (DND) Deactivate	Default code: *78
Call Forward Busy Activate	 Default Code: *90 Enter the code and follow the voice prompt. Or enter the code followed by the extension to forward the call.
Call Forward Busy Deactivate	Default Code: *91
Call Forward No	- Default Code: *92

Answer Activate	- Enter the code and follow the voice prompt. Or enter the code followed by the extension to forward the call.
Call Forward No Answer Deactivate	Default Code: *93
Call Forward Unconditional Activate	 Default Code: *72 Enter the code and follow the voice prompt. Or enter the code followed by the extension to forward the call.
Call Forward Unconditional Deactivate	Default Code: *73
Remote Call Forward Enable	Enable this option and configure the Remote Call Forward Whitelist below to allow specific extensions to dial the remote call forwarding feature codes to set call forwarding for any extension.
Remote DND / Call Fo	orward Settings
Enable	Enable this option and configure the Whitelist below to allow specific extensions to dial feature codes to set DND or call forwarding for any extension.
Remote Call Forward Busy Enable	Configures and enables CFB for any extension.
Remote Call Forward No Answer Enable	Configures and enables CFNA for any extension.
Remote Call Forward Always Enable	Configures and enables CFU for any extension.
Remote DND Enable	Enables Do Not Disturb for any extension.
Remote Call Forward Busy	Disables CFB for any extension.

Disable	
Remote Call Forward No Answer Disable	Disables CFNA for any extension.
Remote Call Forward Always Disable	Disables CFU for any extension.

Remote DND Disable	Disables Do Not Disturb for any extension.
Whitelist	Extensions in this whitelist can configure DND or call forwarding for any extension via feature codes.
	Feature Codes
Voicemail	
Voicemail Access Code	 Default Code: *98 Enter *98 and follow the voice prompt. Or dial *98 followed by the extension and # to access the entered extension's voicemail box.
My Voicemail	 Default Code: *97 Press *97 to access the voicemail box.
Voicemail Group Access Code	Dial this code to access group voicemail. If password is required, enter password followed by the pound (#) key.
Direct Dial Voicemail Prefix	Prefix used to dial directly to voicemail.
Call Queue	
Agent Pause	Default Code: *83Pause the agent in all call queues.
Agent Unpause	 Default Code: *84 Unpause the agent in all call queues.
Dynamic Agent Logout	Log the dynamic agent out of all queues.
Call Pickup	
Pickup on Ringing	Picks up a ringing call for another extension.
Prefix	Example: If the prefix is **, and there is a call ringing ext 1008, dial **1008 from a different extension to pick up the call to 1008.
Pickup In-call Prefix	Picks up an ongoing call for another extension. Example: If the feature code is *45, and ext 1008 is in a call, dialing *45 and then 1008 following the prompt will take that call. Note: The feature code user must be in the extension's Allowed to seamless transfer list to pick up calls for it.
Pickup Extension	This is the feature code to pick up incoming calls for other extensions in the same pickup group. The default setting is *8.
Call Barging	
Enable Spy	Check this box to enable spy feature codes.

Listen Spy	This is the feature code to listen in on a call to monitor performance. Your line will be muted, and neither party will hear you. The default setting is *54.
Barge Spy	This is the feature code to join in on the call to assist both parties. The default setting is *56.
Whisper Spy	This is the feature code to speak to only one party in the call. For example, you could whisper to employees to help them handle a call. Only an employee on your account will be able to hear you. The default setting is *55.
PMS	
PMS Wakeup Service	Dial this feature code to access PMS Wakeup Service. You can add, update, activate or deactivate PMS Wakeup Service.
PMS Remote Wakeup Service	Dial this code to add, update, activate, and deactivate PMS wakeup service for other extensions.
Update PMS Room Status	 2 methods are available: 1. Dial the room status feature code + maid code, listen to the prompt and then the dial the appropriate key for the desired room status. Example: Maid with maid code 0001 dials *230001, listens to the room status options prompt, and then dials 1 to change room status to Available. 2. Dial room status feature code*maid code*desired room status option key to quickly change the room status without needing to go through the system voice prompts. Example: Maid with maid code 0001 dials *23*0001*1 to change room status Available.
Misc	
Paging Prefix	Configure the paging prefix for paging. For example, if the Paging Prefix is set to *81, dial *816000 to initiate a paging call to extension 6000.
Intercom Prefix	Configure the intercom prefix for intercom calls. For example, if the Intercom Prefix is set to *80, dial *806000 to initiate an intercom call to extension 6000.
Blacklist Add	Follow the voice prompt to add a caller ID to blacklist.
Blacklist Remove	Follow the voice prompt to remove a caller ID from blacklist.
Direct Dial Mobile Phone Prefix	If calling mobile phone numbers is permitted, use this prefix plus the extension number to dial the mobile phone number of this extension directly.
Call Completion Request	If the caller wants to use CC to complete a call, he/she can dial this code. After the CC has been registered successfully, the system will start to monitor the status of the callee. The system will call back the caller when the callee's extension is available.
Call Completion Cancel	If the caller has requested CC successfully, and he/she doesn't need to call back anymore, he/she can dial this code to cancel the request.
Presence Status	Dial this feature code to set the presence status of the extension.
Call Flip	- Default code: *46

	- Dial this code to move the call of this extension from another device to the current device.
Wakeup Service	Dial this feature code to access UCM Wakeup Service. You can add, update, activate or deactivate UCM Wakeup Service.
Remote Extension Privilege Update	Whitelisted extensions will be able to use the Remote Extension Privilege Update feature code to remotely change any extension's outgoing call privilege. Note: After this function has been enabled, the extension is the whitelist can set the privilege for outgoing calls of any extension by dialing the feature code.
Remote Extension Privilege Update Whitelist	 Remote Extension Privilege Update Whitelist Procedure: Dial *26 on the whitelisted extension, hear the prompt "Change extension's outgoing permission level, please enter the phone number, then enter # key." After the process, voice will prompt "Press 1 to set to internal, press 2 to set to local, press 3 to set to national, press 4 to set to international." After selecting, it will prompt "Change extension XXXX outgoing permission to XXX", and hang up.

The UCM630X also allows user to one click enable / disable specific feature code as shown below:

Enable/Disable Feature codes

Parking Lot

User can create parking lots and their related slots under Web GUI -> Call Features -> Parking Lot. In the Parking Lot page, users can create lots of their

own. This allows different groups within an organization to have their own parking lots instead of sharing one large parking lot with others. While creating a new parking lot, users can assign it a range that they think is appropriate for the group that will use the parking lot.

Parking Lot					
Parking Lot Settings	Parking Lot Status				
+ Add					
EXTENSION \$		NAME \$		SLOTS \$	OPTIONS
700		DefaultLot		701-720	C 🗊
7000		Dales		7001-7022	2 🔟
			1 🗵		Total: 2 10 / page > Goto 1

Parking Lot

User can create a new Parking lot by clicking on button "Add" :

Create New Parking Lot				Cancel Save
* Parking Lot Extension :		* Parking Lot Name :]
* Parking Slots :		Use parklot as extension :		
* Parking Timeout (s):	300	Music on Hold Playlists :	Default \vee]
Failover Destination :		Ring-All Callback on Timeout :		
Forward to Destination on				
Timeout:				

New Parking Lot

Parking Lot Extension	 Default Extension: 700 During an active call, initiate blind transfer and then enter this code to park the call.
Parking Lot Name	• Set a name to the parking lot
Parked Slots	 Default Extension: 701-720 These are the extensions where the calls will be parked, i.e., parking lots that the parked calls can be retrieved.
Use Parklot as Extension	• If checked, the parking lot number can be used as extension. The user can transfer the call to the parking lot number to park the call. Please note this parking lot number range might conflict with extension range.
Parking Timeout (s)	 Default setting is 300 seconds, and the maximum limit is 99.999 seconds. This is the timeout allowed for a call to be parked. After the timeout, if the call is not picked up, the extension who parks the call will be called back.

Music On Hold Classes	Select the Music on Hold Class.
Failover Destination	Configures a callback failover destination when the extension that is called back is busy. The call will be routed to the destination number and this reduces the chance of dropping parked calls.
Ring All Callback on Timeout	If enabled, all registered endpoints of the extension will ring when callback occurs. Otherwise, only the original endpoint will be called back.

Forward to destination on timeout	If enabled, the call will be routed to the configured destination upon timeout. Otherwise, the call will be routed back to the original caller.
Timeout Destination	This option appears once Forward to Destination on Timeout is enabled. Upon park timeout, the call will be routed to the configured destination.
Parking Lot Timeout Alert-Info	Adds an Alert-Info header to parking lot callbacks after the Parking Timeout has been reached.

Table 101 : Parking Lot

Call Park

The UCM630X provides call park and call pickup features via feature code.

Park a Call

There are two feature codes that can be used to park the call.

• Feature Maps→Call Park (Default code #72)

During an active call, press #72 and the call will be parked. Parking lot number (default range 701 to 720) will be announced after parking the call.

◦ Feature Misc→Call Park (Default code 700)

During an active call, initiate blind transfer (default code #1) and then dial 700 to park the call. Parking lot number (default range 701 to 720) will be announced after parking the call.

Retrieve Parked Call

To retrieve the parked call, simply dial the parking lot number and the call will be established. If a parked call is not retrieved after the timeout, the original extension who parks the call will be called back.

Monitor Call Park CID Name Information (GXP21xx, GRP261x Phones Only)

Users can see the CID name information of parked calls. VPK/MPKs must be configured as "Monitored Call Park" with the desired parking lot extension. The display will alternate between displaying the parking lot extension and the call's CID name. There is no need to configure anything on the UCM.

Monitored Call Park CID name

Call Recording

The UCM630X allows users to record audio during the call. If "Auto Record" is turned on for an extension, ring group, call queue or trunk, the call will be automatically recorded when there is established call with it. Otherwise, please follow the instructions below to manually record the call.

1. Make sure the feature code for "Start/Stop Call Recording" is configured and enabled.

- 2. After establishing the call, enter the "Start/Stop Call Recording" feature code (by default it is *3) followed by # or SEND to start recording.
- 3. To stop the recording, enter the "Start/Stop Call Recording" feature code (by default it is *3) followed by # or SEND again. Or the recording will be stopped once the call hangs up.
- 4. The recording file can be retrieved under Web $GUI \rightarrow CDR$. Click on to sho

to show and play the recording or click on to download the recording file.

C	DR										Display Filter
Ву	default,	this pag	e displays the	Recording Files			×				
	j Dele		Del	2019-12	/auto-1575966194-1000-6500.	wav 🕟 🛓	Ī	0	Automatic Dow	nload	
	ST. \$	ATUS	CALL FROM					1E \$	TALK TIME 🔅	ACCOUN T CODE \$	RECORDING FILE OPTI ONS \$
•	٩	•	1000						0:01:29		•
Þ	٩	•	1000						0:00:00		•
+	٩	•	1000	6500	QUEUE[6500]	2019-12-11 06:41:42	0:00:12		0:00:06		

Figure 229: Download Recording File from CDR Page

The above recorded call's recording files are also listed under the UCM630X Web GUI **CDR Recording Files**.

Recording Files				
🛃 Download 🛃 Download All	🛅 Delete 🔚 Clear	Local	 Recording Files I 	2019-12
CALLER \$	CALLEE ≑	CALL TIME \$	SIZE \$	OPTIONS
1000	6500	2019-12-10 03:23:27 UTC-05:00	80.67 KB	۰ 🛧 🖲
	K	1 >	Total: 1	0 / page Y Goto 1

Download Recording File from Recording Files Page

Enable Spy

If "Enable Spy" option is enabled, feature codes for Listen Spy, Whisper Spy and Barge Spy are available for users to dial from any extension to perform the

Assume a call is on-going between extension A and extension B, user could dial the feature code from extension C to listen on their call (*54 by default), whisper to one side (*55 by default), or barge into the call (*56 by default). Then the user will be asked to enter the number to call, which should be either side of the active call, extension A or B in this example.

A "Enable Spy" allows any user to listen to any call by feature codes. This may result in the leakage of user privacy.

Shared Call Appearance (SCA)

Shared Call Appearance (SCA) functionality has been added to the UCM. With SCA, users can assign multiple devices to one extension, configure endpoints to monitor that extension, make actions on behalf of that extension such as viewing call status and placing and receiving calls, and even barging into existing calls. To configure the SCA functionality, please follow the steps below:

1. Users can enable SCA by navigating to the Extensions page, editing the desired extension, and enabling the option SCA.

• With SCA enabled, the Concurrent Registrations field can only have a value of 1.

Edit Extension: 10	000						
Basic Settings	Media	Features	Specific Time	Follow Me			Cancel Save
General							
* Extension :		1000			CallerID Number:	1000	
* Permission :		Internal		×	* SIP/IAX Password :	•••••	2 ₂₄ 4
AuthID:					Voicemail:	Local Voicemail	~
* Voicemail Password	d :	•••••		54	Skip Voicemail Password		
					Verification:		
Send Voicemail to E	Email:	Default		~	Keep Voicemail after Emailing:	Default	~
Enable Keep-alive :					* Keep-alive Frequency :	60	
Disable This Extens	sion:				Enable SCA:		
Emergency Calls Cl	D:						

Enabling SCA option under Extension's Settings

2. After enabling the option, navigate to *Call Features* \rightarrow *SCA*. The newly enabled SCA extension will be listed. Click the "+" button under the Options column to add a number that will share the main extension's call appearance, which will be called private numbers.

SCA					
SCA Number Group	SCA Line Status				
STATUS \$	SHARED LINE ≑	ROLE	IP AND PORT 🗘	SUBSCRIBED ≑	OPTIONS
 Unavailable 	1000	shared		no	t
		< 1 ≥		Total:	1 10 / page ~ Goto 1
		< <u>1</u> 2		i otai:	TO Page Goto

SCA Number Configuration

3. Configure the private number as desired.

* Private Number:		
Related Shared Line:	1000	
Enable This Number:	✓	
Allow Origination from This Number:		
Allow Termination to This Number:		
	Cancel Save	

4. Once the private number has been created, users must now register a device to it. To properly register a device to the private number, use the configured private number as the SIP User ID. Auth ID and Password will be the same as the main extensions. Once registration is complete, SCA is now configured.

Edit SCA Number Group	:
* Shared Line Number:	1000 ~
Allow Call Retrieve from Another Location:	
Alert All Appearances for Group Paging Calls :	
Multiple Call Arrangement:	
Allow Bridging between	
Bridge Warning Tone :	Barge-In only

SCA Options

5. Next, configure the VPK or MPK to Shared for both the main extension and the private number. SCA is now configured for both endpoint devices.

The following table des	cribe the SCA Number	configuration setting:
-------------------------	----------------------	------------------------

Private Number	Configures the private number for the SCA.
Related Shared Line	Display the related shared line.
Enable This Number	Whether enable this private number. If not enabled, this private number is only record in DB, it will not affect other system feature.
Allow Origination from This Number	Enable this option will allow calling from this private number. By default, it is enabled.
Allow Termination to This Number	Enable this option will allows calls to this private number. By default, it is enabled.

Table 102: Add SCA Private Number

The following table describes the options available when editing the SCA number:

Shared Line Number	While SCA is enabled, this number will be the same as the extension number.
Allow Call Retrieve from Another Location	Allows remote call retrieval. Must be enabled in public hold. By default, it is enabled.

Alert All Appearances for Group Paging Calls	Allows all SCA group members to ring when the SCA shared number is paged. If disabled, only the SCA shared number will ring when paged. By default, it is disabled.
Multiple Call Arrangement	Allows simultaneous calls in an SCA group. By default, it is disabled.
Allow Bridging between Locations	Allows location bridging for SCA group. Must be enabled when using the Barge-In feature. By default, it is disabled.
Bridge Warning Tone	 Configures the notification in the bridge when another party join. None: No notification sound. Barge-In only: Notification sound will play when another party join. Barge-In and Repeat: Notification sound will play when another party joins and repeat every 30 seconds. By default, it is set to "Barge-In Only".

Table 103: Editing the SCA Number

ANNOUNCEMENT

The Announcement feature (not to be confused with Announcement Paging and Announcement Center) is a feature that allows users to set an unskippable audio file to play to callers before routing them to a configured destination. Announcements can be configured as a destination in the Inbound Routes page.

To configure Announcement, users need to follow below steps:

- 1. Navigate on the web GUI under "Call Features \rightarrow Announcement"
- 2. Click on to add a new Announcement.
- 3. Configure the required fields Name, Prompt, Default Destination to be used for the announcement.

Save and apply the configuration.

 * Name : GStest Prompt : Lee_Rosevere12Were_Almost_There-1 v Upload Audio File Default Destination : Extension v 1001 v 	Create New Announce	ment
	*Name:	GStest
Default Destination : Extension · 1001 ·	Prompt:	Lee_Rosevere12Were_Almost_There-1 V Opload Audio File
	Default Destination :	Extension × 1001 ×

Figure 235: Announcement settings

The table below gives more description of the configuration parameters when creating Announcement.

Name	Configure the name of the Announcement.
Prompt	Audio file that needs to be uploaded in order to be played for a specific destination.
Default Destination	Select the destination where to play the audio file.

Table 104: Announcement Parameters

PBX SETTINGS

This section describes internal options that have not been mentioned in previous sections yet. The settings in this section can be applied globally to the UCM630X, including general configurations, jitter buffer, RTP settings, ports config and STUN monitor. The options can be accessed via Web GUI \rightarrow PBX Settings \rightarrow General Settings.

General Settings

General Preferences	
Global Outbound CID	Configure the global CallerID used for all outbound calls when no other CallerID is defined with higher priority. If no CallerID is defined for extension or trunk, the global outbound CID will be used as CallerID.
Global Outbound CID Name	Configure the global CallerID Name used for all outbound calls. If configured, all outbound calls will have the CallerID Name set to this name. If not, the extension's CallerID Name will be used.
Ring Timeout	Configure the number of seconds to ring an extension before the call goes to the user's voicemail box. The default setting is 60 . Note: This is the global value used for each extension if "Ring Timeout" field is left empty on the extension configuration page.
Call Duration Limit	Block calls for the configured duration. If Extensions->Features->Call Duration Limit and Outbound Routes->Call Duration Limit are not configured, General Settings->Call Duration Limit will be used.
Record Prompt	If enabled, users will hear voice prompt before recording is started or stopped. For example, before recording, the UCM630X will play voice prompt "The call will be recorded". The default setting is "No".
Allow External Numbers to Cancel Recording	If enabled, external call parties will be given the option to decline the recording of calls. The IVR will prompt the user to dial *3 in order to cancel the call recording.
Stereo Recording	If enabled, the caller and callee's audio will be split into two channels during call recording. Not applicable to calls with more than 2 parties.
Calling Channel	Configure the audio channels for the calling party and the called party. If the caller is selected as the right channel, the callee will be used for the left channel, and vice-versa. Note: This option will be available when "Stereo Recording" is enabled.

International Call Prefix	When this configuration is empty, International Call Prefix can be empty or +.
Extension Preferences	
Enforce Strong Password	If enabled, a strong password policy will be enforced. This does not affect user login passwords, which must be strong.
Enable Random Password	If enabled, the extension will created with a randomly generated password.

Send Extension Update Emails	If enabled, an email will be sent to an extension's configured email address after creating it or modifying that extension's settings.
Disable Extension Range	If set to "Yes", users could disable the extension range pre-configured/configured on the UCM630X. The default setting is "No".Note: It is recommended to keep the system assignment to avoid inappropriate usage and unnecessary issues.
Extension Ranges	 The default extension range assignment is: User Extensions: 1000-6299 User Extensions is referring to the extensions created under Web GUI→Extension/Trunk→Extensions page. Pick Extensions: 4000-4999 This refers to the extensions that can be manually picked from end device when being provisioned by the UCM630X. There are two related options in zero config page→Zero Config Settings, "Pick Extension Segment" and "Enable Pick Extension" under zero config settings is selected, the extension list defined in "Pick Extension Segment" will be sent out to the device after receiving the device's request. This "Pick Extension Segment" should be a subset of the "Pick Extensions" range here. This feature is for the GXP series phones that support selecting extension to be provisioned via phone's LCD. Auto Provision Extensions: 5000-6299 This sets the range for "Zero Config Extension Segment" which is the extensions can be assigned on the UCM630X to provision the end device. Meeting Extensions: 6300-6399 This extension range is used for reating meeting rooms. Ring Group Extensions: 6400-6499 This extension range is used for queueing Voicemail Group Extensions: 6600-6699 This extension range is used for voicemail groups. IVR Extensions: 7000-7100 This extension range is used for Dial by Name feature FAX Extension: 7200-8200 This extension range is used for T.38 Fax.
Default Extension Segment	Clicking this button will reset the extension range to their default values.

RTP Settings

RTP Settings

Table 106: Internal Options/RTP Settings

RTP Start	Configure the RTP port starting number. The default setting is 10000.	
-----------	---	--

RTP End	Configure the RTP port ending address. The default setting is 20000.
Strict RTP	Configure to enable or disable strict RTP protection. If enabled, RTP packets that do not come from the source of the RTP stream will be dropped. The default setting is "Disable".
RTP Checksums	Configure to enable or disable RTP Checksums on RTP traffic. The default setting is "Disable".
ICE Support	Configure whether to support ICE. The default setting is enabled. ICE is the integrated use of STUN and TURN structure to provide reliable VoIP or video calls and media transmission, via a SIP request/ response model or multiple candidate endpoints exchanging IP addresses and ports, such as private addresses and TURN

	server address.
STUN Server	Configure STUN server address. STUN protocol is a Client/Server and also a Request/Response protocol. It is used to check the connectivity between the two terminals, such as maintaining a NAT binding entries keep-alive agreement. The default STUN Server is stun.ipvideotalk.com. Valid format: [(hostname IP-address) [':' port] The default port number is 3478 if not specified.
BFCP UDP Start	Configure BFCP UDP port starting number. The default setting is 50000.
BFCP UDP End	Configure BFCP UDP port ending number. The default setting is 52999.
BFCP TCP Start	Configure BFCP TCP port starting number. The default setting is 53000.
BFCP TCP End	Configure BFCP TCP port ending number. The default setting is 55999.
TURN Server	Configure TURN server address. TURN is an enhanced version of the STUN protocol and is dedicated to the processing of symmetric NAT problems.
TURN Server Name	Configure turn server account name
TURN Server Password	Configure turn server account password.
Connection Protocol	Protocol used to connect to the TURN server.
Number of ICE Candidates	This configures the number of pre-collected ICE candidates to gather and send to remote peers. The higher the number, the greater the network traffic consumption.

Payload

The UCM630X payload type for audio codecs and video codes can be configured here.

AAL2-G.726	Configure payload type for ADPCM (G.726, 32kbps, AAL2 codeword packing). The default setting is 112.
DTMF	Configured payload type for DTMF. The default setting is 101.
G.721 Compatible	Configure to enable/disable G.721 compatible. The default setting is Yes.
G.726	Configure the payload type for G.726 if "G.721 Compatible" is disabled. The default setting is 111.
iLBC	Configure the payload type for iLBC. The default setting is 97.
OPUS	Configure the payload type for OPUS. The default setting is 123.
Audio FEC Payload Type	Configure the Audio FEC Payload Type. The default setting is 127

Audio RED Payload Type	Configure the Audio RED Payload Type. Default setting is 122
H.264	Configure the payload type for H.264. The default setting is 99.
H.263P	Configure the payload type for H.263+. The default setting is 100 103.
VP8	Configure the payload type for VP8. The default setting is 108.
Main Video FEC	Configure the Main Video FEC
RTP FECC	Configure the RTP FECC
RTX	Configure the RTX
G.722.1	G.722.1: Low-complexity coder, 24kbps.
G.722.1C	G.722.1C: Low-complexity coder, 48kbps.

Table 107: Internal Options/Payload

PBX Settings/Voice Prompt Customization

Record New Custom Prompt

In the UCM630X Web GUI \rightarrow PBX Settings \rightarrow Voice Prompt \rightarrow Custom Prompt page, click on "Record" and follow the steps below to record new IVR prompt.

Record New Custom Prom	pt	×			
Note: The mp3 sound file will be converted to wav format.					
* File Name:					
Format :	GSM v				
Extension:	1000 "Mia" ~				
	Cancel Record				



Record New Custom Prompt

1. Specify the IVR file name.

2. Select the format (GSM or WAV) for the IVR prompt file to be recorded.

3. Select the extension to receive the call from the UCM630X to record the IVR prompt.

4. Click the "Record" button. A request will be sent to the UCM630X. The UCM630X will then call the extension for recording the IVR prompt from the phone.

5. Pick up the call from the extension and start the recording following the voice prompt.

6. The recorded file will be listed in the IVR Prompt web page. Users could select to re-record, play, or delete the recording.

Upload Custom Prompt

If the user has a pre-recorded IVR prompt file, click on "Upload" in Web GUI \rightarrow PBX Settings \rightarrow Voice Prompt \rightarrow Custom Prompt page to upload the file to the UCM630X. The following are required for the IVR prompt file to be successfully uploaded and used by the UCM630X:

- PCM encoded.
- 16 bits.
- 8000Hz mono.
- In .mp3 or .wav format; or raw/ulaw/alaw/gsm file with .ulaw or .alaw suffix.
- File size under 5M.

Choose File to Upload				
Note: The mp3 sound file will be	transcoded to way format.			
Choose File to Upload:	Choose File to Upload			
(Cancel Upload			

Upload Custom Prompt

Click on "choose file to upload" to start uploading. Once uploaded, the file will appear in the Custom Prompt web page.

Download All Custom Prompt

On the UCM630X, the users can download all custom prompts from UCM Web GUI to local PC. To download all custom prompt, log in UCM Web GUI and navigate to **PBX Settings** \rightarrow **Voice Prompt** \rightarrow **Custom Prompt** and click on "Download All". The following window will pop up in order to set a name for the downloaded file.

Download All	×	
* File Name:	prompt_20170505_091512 Cancel Download	

Download All Custom Prompt

Call Failure Tone Settings

SIP Trunk Prompt Tone

Prompt Tone Settings tab has been added to the UCM to help users choose which prompt will be played by the UCM during call failure, the following voice message responses have been added and can be set to be played for 4XX, 5XX, and 6XX call failures:

• Default for 404 and 604 status codes: "Your call can't be completed as dialed. Please check the number and dial again."

- Default for 5xx status codes: "Server error. Please check your device."
- Default for 403 and 603 status codes: "The call was rejected by the server. Please try again later."
- Default for all other status codes: "All circuits are busy now. Please try again later."

Additionally, custom voice messages recorded and uploaded in **PBX Settings** \rightarrow **Voice Prompt** \rightarrow **Custom Prompt** can be used for these failure responses instead of the default messages.

Call Failure Tone Settings					
SIP Trunk Prompt Tone	General Call Failure Tones				
Specify the tones to play for vario	us SIP trunk call failure scenarios.				
Reset All Default All					
400:	slp-trunk-out-busy ~	401: sip-trunk-out-busy	~		
402:	slp-trunk-out-busy ~	403: sip-trunk-out-rejected	~		
404:	sip-trunk-out-wrong-nu ~	405: sip-trunk-out-busy	~		
406:	slp-trunk-out-busy 🔍	407: sip-trunk-out-busy	~		
408:	sip-trunk-out-busy 🗸 🗸	410: sip-trunk-out-busy	~		
413:	sip-trunk-out-busy ~	414: sip-trunk-out-busy	×		
415:	sip-trunk-out-busy ~	416: sip-trunk-out-busy	×		
420:	slp-trunk-out-busy Y	421: sip-trunk-out-busy	~		
423:	slp-trunk-out-busy ~	480: sip-trunk-out-busy	~		
481:	sip-trunk-out-busy ~	482: sip-trunk-out-busy	~		
483:	sip-trunk-out-busy ~	484: slp-trunk-out-busy	~		
485:	sip-trunk-out-busy ~	486: slp-trunk-out-busy	~		
487:	sip-trunk-out-busy ~	488: slp-trunk-out-busy	~		
491:	sip-trunk-out-busy ~	493: sip-trunk-out-busy	×		
Reset All Default All					
500:	sip-trunk-out-server-error \vee	5017 sip-trunk-out-server-en	ror v		
502:	sip-trunk-out-server-error \vee	503: Sip-trunk-out-server-en	ror 🖂		
504:	sip-trunk-out-server-error \vee	505: Sip-trunk-out-server-en	ror v		
513:	sip-trunk-out-server-error v				
Reset All Default All					
600:	sip-trunk-out-busy ~	603: sip-trunk-out-rejected	~		
604:	sip-trunk-out-wrong-nu V	606: sip-trunk-out-busy	~		

SIP Trunk Prompt Tone

General Call Prompt Tones

Moreover, users also have the possibility to customize the prompt for typical call failure reasons like (no permission to allow outbound calls, busy lines, incorrect number dialed ...Etc.).

To customize these prompts user could record and upload their own files under "'PBX Settings \rightarrow Voice Prompt \rightarrow Custom Prompts" then select each one

for specific call failure case under "PBX Settings -> Call Prompt Tones -> General Call Prompt Tones" page as shown on the following figure:

General Call Propt Tones

File Manager

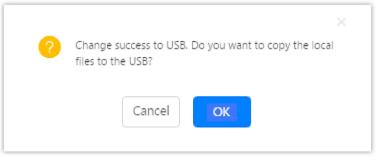
UCM supports automatic or manual recording of calls and storage of IM chat files. Only recording files and IM files can be stored locally or on the GDMS, meanwhile, video recording files can only be stored on NAS. Local storage means that the files will be stored in the internal memory of the UCM. For extra storage capacity the user can plug a USB flash drive or an SD card, the UCM will always store in the USB drive first, then the SD card. In case no storage drive is attached, it will automatically start storing the files internally.

File Manager

• If "Enable Auto Change" is selected, the files will be automatically saved in the available USB Disk or SD card plugged into the UCM630x. If both USB Disk and SD card are plugged in, the files will be always saved in the USB Disk.

- When "Enable Auto Change" is enabled, the option "**Storage Path Priority**" will appear. It allows the user to configure the priority of each storage unit in the priority list (The storage on top of the list has the highest priority). The default priority list is *GDMS Cloud Storage* > *NAS* > *USB 1* > *USB* > *SD Card* > *Local*
- If "Local" is selected, the files will be stored in UCM630x internal storage. If a storage drive is inserted, the UCM63xx will store the files into the storage drive instead of internal storage. Priority list is USB drive, then SD Card.
- If "GDMS Cloud Storage" is selected, data will no longer be stored locally and if you need to listen to the recording, download the file to the computer side and play it offline.

Once "USB Disk" or "SD Card" is selected, click on "OK". The user will be prompted to confirm to copy the local files to the external storage device.



Recordings Storage Prompt Information

Click on "OK" to continue. The users will be prompted a new dialog to select the categories for the files to be copied over.

Edit Please select the files that you want to copy.:
It may take some time to copy files completely.
Recording Files : 🔽
Conference: 🗸
Queue : 🔽
All:

Recording Storage Category

1 Note

Once a storage device has filled up, the UCM will choose the next available storage device based on the Storage Path Priority.

On the UCM630X, users have the following options when select the categories to copy the files to the external device:

- **Recording Files**: Copy the normal recording files to the external device.
- **Conference**: Copy the conference recording files to the external device.

• Queue: Copy the call queue recording files to the external device.

• All: Copy all recording files to the external device.

NAS

The UCM supports adding and backing up recordings to a network-attached storage (NAS) server. Following table describes NAS settings:

Enable Enabled / Disable the NAS recording functionality.

Host	Configure the Domain or IP address of the NAS server. Note: Currently, only IP addresses are supported in the Host/IP field.
Share Name	Specify the name of the shared folder.
Userna me	Specify the account username to access the NAS server.
Passwor d	Configure the account password to access the NAS server.
Security Mode	Select a security mode based on the server settings to ensure proper connection establishment. The default value is ntlmssp.
Status	If configured correctly, the Status field will show "Mounted", and the newly added NAS server will be shown on the Mounted Netdisk List. Additionally, the NAS will appear as a selectable storage option in the PBX Settings \rightarrow Recording Storage page and CDR \rightarrow Recording Files page.

Table 108: NAS Settings

Note

If Network Storage Device has 1GB of storage space left, it will be considered unavailable the UCM will trigger the external disk usage alert.

SIP SETTINGS

The UCM630X SIP global settings can be accessed via Web GUI**→PBX Settings→SIP Settings**.

General

Realm For Digest	Configure the hostname or domain name for the UCM630X. Realms MUST be globally unique according to RFC3261. The
Authentication	default setting is Grandstream.
Bind UDP Port	Configure the UDP port used for SIP. The default setting is 5060.
	Configure the ODT port used for SH. The default setting is 5000.

Bind IPv4 Address	Configure the IPv4 address to bind to. The default setting is 0.0.0.0, which means binding to all addresses.
Bind IPv6 Address	Configure the IPv6 address to bind to. The default is: "[::]" and it means to bind to all IP addresses.

Allow Guest Calls	If enabled, the UCM630X allows unauthorized INVITE coming into the PBX and the call can be made. The default setting is "No". Warning: Please be aware of the potential security risk when enabling "Allow Guest Calls" as this will allow any user with the UCM630X address to dial into the UCM630X.
Allow Transfer	If set to "No", all transfers initiated by the endpoint in the UCM630X will be disabled (unless enabled in peers or users). The default setting is "Yes".
MWI From	When sending MWI NOTIFY requests, this value will be used in the "From:" header as the "name" field. If no "From User" is configured, the "user" field of the URI in the "From:" header will be filled with this value.
Enable Diversion Header	If disabled, the UCM will not forward the diversion header.
Block Collect Calls	If enabled, collect calls will be blocked. Note: Collect calls are indicated by the header "P-Asserted-Service-Info: service-code=Backward Collect Call, P-Asserted- Service-Info: service-code=Collect Call".

Table 109: SIP Settings/General

MISC

Outbound SIP Registrations	
Register Timeout	Configure the register retry timeout (in seconds). The default setting is 20.
Register Attempts	Configure the number of registration attempts before the UCM630X gives up. The default setting is 0, which means the UCM630X will keep trying until the server side accepts the registration request.
Trunk Register Period (s)	Configures the time window within which to send initial trunk registration requests. Instead of sending out all initial trunk registration requests at once, requests will be randomly sent out within this period.
Video	
Max Bit Rate (kb/s)	Configure the maximum bit rate (in kb/s) for video calls. The default setting is 384.
Support SIP Video	Select to enable video support in SIP calls. The default setting is "Yes".
Security	

Reject Non- Matching INVITE	If enabled, when rejecting an incoming INVITE or REGISTER request, the UCM630X will always reject with "401 Unauthorized" instead of notifying the requester whether there is a matching user or peer for the request. This reduces the ability of an attacker to scan for valid SIP usernames. Default setting is "No".
SDP Attribute Passth	urough
Enable Attribute Passthrough	If enable, and if the service does not know the attribute of FEC/FECC/BFCP, then the attribute will be passthrough.
Early Media	
Enable Use Final SDP	If enabled, call negotiation will use final response SDP.
Ignore 180 Response	If enabled, ringing indication after 183 response will be ignored.
Blind Transfer	
Allow callback when blind transfer fails	If enabled, the UCM will call back to the transferrer when blind transfer fails (reason of failure includes busy and no answer). Note : This feature takes effect only on internal calls.
Blind transfer timeout	Configure the timeout in (s) for the transferrer waiting for the destination to answer. Default is 60s.
Hold	
Forward HOLD Requests	Configure the UCM to forward HOLD requests instead of processing holds internally. This serves to meet the standards set by some providers that require HOLD requests to be passed along from endpoint to endpoint. This option is disabled by default. Note: Enabling this option may cause hold retrieval issues and MOH to not be heard.

Session Timer

Force Timer	If checked, always request, and run session timer.
Timer	If checked, run session timer only when requested by other UA.
Session Expire	Configure the maximum session refresh interval (in seconds). Default is 1800.
Min SE	Configure the minimum session refresh interval (in seconds). The default setting is 90.

Table 111: SIP Settings/Session Timer

TCP & TLS

TCP Enable	Configure to allow incoming TCP connections with the UCM630X. The default setting is "No".
TCP Bind IPv4 Address	Configure the IP address for the TCP server to bind to. "0.0.0.0" means binding to all interfaces. The port number is optional, and the default port number is 5060. For example, 192.168.1.1:5062.
TCP Bind IPv6 Address	Configure the IPv6 address for the TCP server to bind to. "[::]" means bind to all interfaces. The port number is optional with the default being 5060. For example, [2001:0DB8:0000:0000:0000:1428:0000]:5060.
TLS Enable	Configure to allow incoming TLS connections with the UCM630X. The default setting is "Yes".
TLS Bind IPv4 Address	Configure the IPv4 address for TLS server to bind to. "0.0.0.0" means binding to all interfaces. The port number is optional, and the default port number is 5061. For example, 192.168.1.1:5063. Note: The IP address must match the common name (host name) in the certificate so that the TLS socket will not bind to multiple IP addresses.
TLS Bind IPv6 Address	Configure the IPv6 address for TLS server to bind to. "[::]" means bind to all interfaces. The port number is optional with default being 5061. For example, [2001:0DB8:0000:0000:0000:1428:0000]:5061. Note: The IP address must match the common name (host name) in the certificate so that the TLS socket will not bind to multiple IP addresses.
TLS Do Not Verify	If enabled, the TLS server's certificate will not be verified when acting as a client. The default setting is "Yes".
TLS Self-Signed CA	This is the CA certificate if the TLS server being connected to requires self-signed certificate, including server's public key. This file will be renamed as "TLS.ca" automatically.
Reset Certificates	Clicking on this button will reset the certificates.
Private Certificate and Key	
TLS Cert	This is the Certificate file (*.pem format only) used for TLS connections. It contains private key for client and signed certificate for the server. This file will be renamed as "TLS.pem" automatically. Note: The size of the uploaded certificate file must be under 2MB.
TLS Key	This file must be named with the CA subject name hash value. It contains CA's (Certificate Authority) public key, which is used to verify the accessed servers. Note: The size of the uploaded CA certificate file must be under 2MB.

Reset Certificates	Clicking on this button will reset the certificates.
Cipher Suite	
Restrict Cipher List	By default, all SIP TLS encryption suites are in effect on the system, and when turned on, you can configure the encryption suites allowed to be used.
Cipher Suite	Select the encryption suites that are allowed to be used for SIP TLS connections, in the order of priority as configured.

NAT

External Host	Configure a static IP address and port (optional) used in outbound SIP messages if the UCM630X is behind NAT. If it is a host name, it will only be looked up once.
Use IP address in SDP	If enabled, the SDP connection will use the IP address resolved from the external host.
External UDP Port	Configure externally mapped UDP port when the PBX is behind a static NAT or PAT.
External TCP Port	Configure the externally mapped TCP port when the UCM630X is behind a static NAT or PAT.
External TLS Port	Configures the externally mapped TLS port when UCM630X is behind a static NAT or PAT.
Local Network Address	Specify a list of network addresses that are considered inside of the NAT network. Multiple entries are allowed. If not configured, the external IP address will not be set correctly. A sample configuration could be as follows: 192.168.0.0/16

Table 113: SIP Settings/NAT

ToS

ToS for SIP	Configure the Type of Service for SIP packets. The default setting is None.
ToS for RTP Audio	Configure the Type of Service for RTP audio packets. The default setting is None.
ToS for RTP Video	Configure the Type of Service for RTP video packets. The default setting is None.
Default Incoming/Outgoing	Configure the default duration (in seconds) of incoming/outgoing registration.

Registration Time	The default setting is 120.
Max Registration/Subscri ption Time	Configure the maximum duration (in seconds) of incoming registration and subscription allowed by the UCM630X. The default setting is 3600.
Min Registration/Subscri ption Time	Configure the minimum duration (in seconds) of incoming registration and subscription allowed by the UCM630X. The default setting is 60.

Enable Relaxed DTMF	Select to enable relaxed DTMF handling. The default setting is "No".
DTMF Mode	Select DTMF mode to send DTMF. The default setting is RFC4733. If "Info" is selected, SIP INFO message will be used. If "Inband" is selected, a-law or u-law are required. When "Auto" is selected, "RFC4733" will be used if offered, otherwise "Inband" will be used. The default setting is "RFC4733".
RTP Timeout	During an active call, if there is no RTP activity within the timeout (in seconds), the call will be terminated. The default setting is no timeout. Note: This setting does not apply to calls on hold.
RTP Hold Timeout	When the call is on hold, if there is no RTP activity within the timeout (in seconds), the call will be terminated. This value of RTP Hold Timeout should be larger than RTP Timeout. The default setting is no timeout.
RTP Keep-alive	This feature can be used to avoid abnormal call drop when the remote provider requires RTP traffic during proceeding. For example, when the call goes into voicemail and there is no RTP traffic sent out from UCM, configuring this option can avoid voicemail drop. When configured, RTP keep-alive packet will be sent to remote party at the configured interval. If set to 0, RTP keep-alive is disabled.
100rel	Configure the 100rel setting on UCM630X. The default setting is "Yes".
Trust Remote Party ID	Configure whether the Remote-Party-ID should be trusted. The default setting is "No".
Send Remote Party ID	Configure whether the Remote-Party-ID should be sent or not. The default setting is "No".
Generate In-Band Ringing	 Configure whether the UCM630X should generate Inband ringing or not. The default setting is "Never". Yes: The UCM630X will send 180 Ringing followed by 183 Session Progress and in-band audio. No: The UCM630X will send 180 Ringing if 183 Session Progress has not been sent yet. If audio path is established already with 183 then send in-band ringing. Never: Whenever ringing occurs, the UCM630X will send 180 Ringing as long as 2000K has not been set yet. Inband ringing will not be generated even the end point device is not working properly.
Server User Agent	Configure the user agent string for the UCM630X.
Send Compact SIP Headers	If enabled, compact SIP headers will be sent. The default setting is "No".
Passthrough PAI Header	Passthrough PAI Header

STIR/SHAKEN

To prevent robocalls, UCM now supports STIR/SHAKE protocols. Related options have been added as a new tab in the SIP Settings page.

Clicking on the *Add* button will show the following window:

STIR/SHAKEN

STIR/SHAKEN – Add Authorized CID and Attestation level

Authorized CID	Configure the authorized CID.
	Configure the attestation level, which is the level of confidence of the carrier that the CID has not been spoofed. The following options are available:
	• A (Full attestation): The carrier is associated with the caller and the number. There is high confidence that the CID has not been
Attestation	spoofed.
	• B (Partial attestation): The carrier is associated with the caller but not the number. There is uncertainty about whether the CID has
	been spoofed or not.
	• C (Gateway attestation): The carrier is not associated with the caller and has no confidence at all about the number. Generally
	used for traceback.

Clicking on the *Certificate Settings* button will bring up the following window:

Certificate Settings		×
* Certificate Download Time (s):	2	
* Signature Valid Time (s):	15]
* Private Key:	private.key]
* Public Key:	public.crt]
	Cancel Save	

STIR/SHAKEN – Certificate Settings

Certificate Download Time (s)	Configure the public key download timeout period, the default value is 2 seconds.
Signature Valid Time (s)	Configure the validity period of the digital signature, the default value is 15 seconds.
Private Key	Configure the Private key. Note : The uploaded file must be less than 2MB in file size, only supports the .key format and must be ECC type. This file will automatically be renamed to "private.key".
Public Key	Configure the Public Key. Note : The uploaded file must be less than 2MB in file size, only supports the .crt format and must be ECC type. This file will automatically be renamed to "public.crt".

Table 116: SIP Settings/STIR/SHAKEN – Certificate Settings

Transparent Call-Info header

UCM supports transparent call info header in order to integrate GDS door system with GXP21XX/GRP261X phones, the UCM will forward the call-info

header to the phone in order to request the live view from GDS door system and give the option to open the door via softkey.

Session Initiation Protocol (INVITE)
Request-Line: INVITE sip:3001@192.168.6.36:5064 SIP/2.0
🗏 Message Header

Transparent Call-Info

IAX SETTINGS

General

Bind Port	Configure the port number that the IAX2 will be allowed to listen to. The default setting is 4569.	
Bind IPv4 Address	Force IAX2 to bind to a specific address instead of all addresses.	
Bind IPv6 address	Configure the IPv6 address to bind to. "[::]" means to bind to all IP addresses.	
IAX1 Compatibility	Select to configure IAX1 compatibility. The default setting is "No".	
No Checksums	If selected, UDP checksums will be disabled and no checksums will be calculated/checked on systems supporting this feature. The default setting is "No".	
Delay Reject	If enabled, the IAX2 will delay the rejection of calls to avoid DOS. The default setting is "No".	
ADSI	Select to enable ADSI phone compatibility. The default setting is "No".	
Music On Hold Interpret	Specify which Music On Hold class this channel would like to listen to when being put on hold. This music class is only effective if this channel has no music class configured and the bridged channel putting the call on hold has no "Music On Hold Suggest" setting.	
Music On Hold Suggest	Specify which Music On Hold class to suggest to the bridged channel when putting the call on hold.	
Bandwidth	Configure the bandwidth for IAX settings. The default setting is "Low".	

Table 117: IAX Settings/General

Registration

IAX Registration

Options

Min Reg Expire	Configure the minimum period (in seconds) of registration. The default setting is 60.
Max Reg Expire	Configure the maximum period (in seconds) of registration. The default setting is 3600.
IAX Thread Count	Configure the number of IAX helper threads. The default setting is 10.
IAX Max Thread Count	Configure the maximum number of IAX threads allowed. The default is 100.

Auto Kill	If enabled and no ACK is received for new messages after the specified wait time, the connection will be terminated.
Authentication Debugging	If enabled, authentication traffic in debugging will not show. The default is "No".
Codec Priority	Configure codec negotiation priority. The default setting is "Reqonly". • Caller Consider the callers preferred order ahead of the host's. • Host Consider the host's preferred order ahead of the caller's. • Disabled Disable the consideration of codec preference all together. • Reqonly This is the same as "Disabled", except when the requested format is not available. The call will only be accepted if the requested format is available.
Type of Service	Configure ToS bit for preferred IP routing.
IAX Trunk Options	
Trunk Frequency	Configure the frequency of trunk frames (in milliseconds). The default is 20.
Trunk Time Stamps	If enabled, time stamps will be attached to trunk frames. The default is "No".

Table 118: IAX Settings/Registration

Security

Call Token Optional Enter a single IP address (e.g., 1.1.1.1) or a range of IP addresses (1.1.1.1/255.255.255.255) for which call token validation is not required.

Max Call Numbers	Configure the maximum number of calls allowed for a single IP address.
Max Unvalidated Call Numbers	Configure the maximum number of Unvalidated calls for all IP addresses.
Max Call Numbers	Configure to limit the number of calls for a give IP address of IP range.
IP or IP Range	Enter the IP address (1.1.1.1) or a range of IP addresses (1.1.1.1/255.255.255.255) to be considered for call number limits.

Table 119: IAX Settings/Static Defense

INTERFACE SETTINGS

Analog Hardware

The analog hardware (FXS port and FXO port) on the UCM630X will be listed in this page. Click on 🖻 to edit signaling preference for FXS port or configure ACIM settings for FXO port.

Select "Loop Start" or "Kewl Start" for each FXS port. And then click on "Update" to save the change.

Edit Analog Ports: Signaling Preference			Cancel Update
Port 1:	Loop Start	~	
Port 2:	Loop Start	~ ·	

FXS Ports Signaling Preference

For FXO port, users could manually enter the ACIM settings by selecting the value from dropdown list for each port. Or users could click on "Detect" and choose the detection algorithm, two algorithms exist (ERL, Pr) for the UCM630X to automatically detect the ACIM value. The detecting value will be automatically filled into the settings.

ACIM Setting		
ACIM Detection :	Detect	
Detect Option :	ERL	~
Port 1::	600 Ω	~
Port 2::	600 Ω	~

FXO Ports ACIM Settings

Tone Region	Select country to set the default tones for dial tone, busy tone, ring tone and etc. to be sent from the FXS port. The default setting is "United States of America (USA)".
Advanced Settings	
	Select country to set the On-Hook Speed, Ringer Impedance, Ringer Threshold, Current Limiting, TIP/RING voltage adjustment,

FXO	Minimum Operational Loop Current, and AC Impedance as predefined for your country's analog line characteristics. The default setting is
Opermode	"United States of America (USA)".
FXS Opermode	Select country to set the On-Hook Speed, Ringer Impedance, Ringer Threshold, Current Limiting, TIP/RING voltage adjustment, Minimum Operational Loop Current, and AC Impedance as predefined for your country's analog line characteristics. The default setting is "United States of America (USA)".
FXS TISS	Configure to enable or disable override Two-Wire Impedance Synthesis (TISS). The default setting is No.
Override	If enabled, users can select the impedance value for Two-Wire Impedance Synthesis (TISS) override. The default setting is 600Ω.

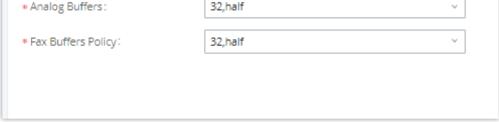
PCMA Override	Select the codec to be used for analog lines. North American users should choose PCMU. All other countries, unless already known, should be assumed to be PCMA. The default setting is PCMU. Note: This option requires system reboot to take effect.
Boost Ringer	Configure whether normal ringing voltage (40V) or maximum ringing voltage (89V) for analog phones attached to the FXS port is required. The default setting is "Normal".
Fast Ringer	Configure to increase the ringing speed to 25HZ. This option can be used with "Low Power" option. The default setting is "Normal".
Low Power	Configure the peak voltage up to 50V during "Fast Ringer" operation. This option is used with "Fast Ringer". The default setting is "Normal".
Ring Detect	If set to "Full Wave", false ring detection will be prevented for lines where Caller ID is sent before the first ring and proceeded by a polarity reversal, as in UK. The default setting is "Standard".
FXS MWI Mode	 Configure the type of Message Waiting Indicator on FXS lines. The default setting is "FSK". FSK: Frequency Shift Key Indicator NEON: Light Neon Bulb Indicator.
FXO Frequency Tolerance	Allows users to adjust the tolerance of the FXO ringing frequency. 63Hz is considered the standard value and is selected by default.

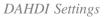
Table 120: PBX Interface Settings

DAHDI Settings

When users encounter issues such as audio delay in outbound calls using the analog trunk, they can adjust DAHDI settings on the UCM to attempt to lessen or resolve the issues.

Analog Hardware		
	DAHDI Settings	





For the value of the option such as "32, half":

The number in the option indicates the number of read/write buffers for TDM (DAHDI).

The "Half", "Immediate" or "Full" option indicates the strategy when reading/writing data from buffer.

- "Half": Data will be read/written from buffer when half of the buffer is occupied with data.
- "Immediate": Read/write from buffer whenever there is data occupying the buffer.
- "Full": Data will be read/written from buffer when buffer is fully occupied with data.

Normally, DAHDI settings should be kept default and should be adjusted only when users encounter analog trunk/Fax-related issues.

CONTACTS

Address book management is under UCM web UI->Maintenance, and it has two sections "Contact Management" and "Department management".

Contact Management

Contact management page displays extension contacts and external contacts information.

• Extension contacts

Extension contacts page shows all the extensions that has "Sync Contact" option enabled in extension settings page. The extension contacts here can be edited or deleted individually or in batch. No new extension contact can be added directly from this page. If an extension contact is deleted from this page, "Sync Contact" option is disabled from this extension. This will not delete the extension from UCM.

1 Note

"Delete" extension contact will only remove this extension from extension contact page and it will not sync to contacts on UCM. The extension itself still exists on UCM.

Contact Manag	ement						
Extension Contacts	External Con	tacts					
☵ Change Departn	nent \Xi Contact		Delete		Q Extension Number or Name	s	earch
EXTENSION \$	NAME	DEPARTMENT \$		EMAIL ADDRESSES 🗘	CONTACT PRIVILEGES	OPT	IONS
1000					All Contacts(Same as Depar tment)	Ľ	Ô
1001	John Doe				All Contacts(Same as Depar tment)	Ľ	Ō
1002	Jane Doe				All Contacts(Same as Depar tment)	Ľ	Ū
1003	Arthur Morgan				All Contacts(Same as Depar tment)	Ľ	Ō
1004					All Contacts(Same as Depar tment)	Ľ	Ô
1005					All Contacts(Same as Depar tment)	Ľ	Ô
2000					All Contacts(Same as Depar tment)	Ľ	Û
2001					All Contacts(Same as Depar tment)	Ľ	0
2002					All Contacts(Same as Depar tment)	Ľ	Ô
2003					All Contacts(Same as Depar tment)	Ľ	Ō
			<u> </u>	>	Total: 11 10 / page v	Goto	1

Extension Contacts

1 Note

"Delete" extension contact will only remove this extension from extension contact page and it will not sync to contacts on UCM. The extension itself still exists on UCM.

Click Edit icon to configure name, department, email address and etc for each extension contact.

Edit Extension Contact

Extension	Displays extension number.
First Name	Configure first name for the extension contact.
Last Name	Configure last name for the extension contact.
Department	Select department for the extension contact. Department can be created in "Department Management" page.
Department Title	Configure the job title for the extension contact.
Email Address	Configure email address for the extension contact.
Mobile Phone Number	Configure mobile phone number for the extension contact.
Home Number	Configure home number for the extension contact
Fax	Configure Fax for the extension contact.
Same as Department Contact Privileges	When this option is enabled, the contact extension will inherit the same privilege as the department it belongs to.
Contact View Privileges	This option allows configuring privileges for the contact extension. Note : This option will be disabled if "Same as Department Contact Privileges" has been enabled.

• External contacts

On external contacts page, the admin can create single external contact, import contacts in batch, edit contacts, delete contacts and export contacts.

External Contacts

Click on "Export" icon, a CSV format file will be generated with the current external contacts.

Click on "import" icon, then follow the steps below to add external contacts in batch:

- Step 1: For option "On Duplicate External Contacts", select whether to skip duplicate contact on the imported CSV file or update the duplicate UCM contact with the information in the CSV.
- Step 2: Choose file from local PC to upload.
- **Step 3**: Click on "Upload".
- Step 4: Click on "Apply" to complete importing external contacts.

Import External Contacts

Department Management

Departments are organizational units that allows organizing extensions within groups that specify the specialty of a the extension owners within a company.

This makes finding contacts easier within the UCM contact books.

Department Management

Click on "Add" to create a new department. Configure the department name and select the superior department. By default the superior department is the root directory. If the UCM has cloud IM configured, the root directory will be the department in cloud IM.

On the department list:

- Click on to create sub department.
- Click on to add member to the department.
- Click on to edit the department.

Edit Department

Department Name	Enter the name of the department.
Upper Level Department	Select the upper level department if the department being created is a nested department.
Contact View Privileges	• All Contacts: The extensions in this department will be able to see all the contacts.

	• Department & Sub-department Contacts: The extensions in this department will only be able to see the contacts which
	are in the same department or in sub-departments.
Set as Shared Department	Enable this option to share this department across the UCMs which use the same Cloud IM server. To be able to enable this option, make sure that the UCM has a RemoteConnect Plan and is correctly connected to the Cloud IM server.
Share to Following Sites	Pick the sites to which you want to share this specific department.

0 Note

The user can create up to 100 departments with up to 4 levels of nested departments.

0 Important

To be able to use shared department, the UCM devices will have to be subscribed to a RemoteConnect plan that offers Cloud IM service. For more information please refer to: https://ucmrc.gdms.cloud/plans

Privilege Management

The user can configure custom privileges other than the default ones (All contacts, Departments and sub-departments contacts). These custom privileges allow more flexible ways of allowing contacts to view all or specific contacts from other departments.

UCM admin can add or edit Privilege Management; under UCM web UI→Contacts Privilege Management, there are 2 default privileges:

- Visible to all contacts.
- Only the contact person's department and sub-department contacts are visible.

When Cloud IM is enabled on the UCM, a third privilege becomes available to choose:

• Local Contacts: Restricts the contacts shown to the contacts of the local UCM.

DEVICE MANAGEMENT

IPC Devices

The UCM admin can add IPC devices and edit accessible extensions so these extensions can view the surveillance streams for the IPC devices.

Click on "Add" to add IPC device.

IP Camera Devices				
+ Add 🛱 Edit Allowed Membe	ers <u>Î</u> Delete	🞝 Import 📑 Export		
STATUS 🗘	DEVICE NUMBER 🗘	DEVICE NAME 🗘	URL 🗘	OPTIONS
Unmonitored	4001	GSC3620	rtsp://192.168.5.74:554	2 💼
			< <u>1</u> > Total: 1 10 / pag	ge 🗸 Goto 1

IPC Devices

Edit the IPC device settings in the table below.

Device Number	The number that allowed members can dial to access the IP camera.
Device Name	Enter the name that you want to allocate for the device.
Protocol	The media protocol that will be used.
IP Address	Enter the IP address of the IP camera.
Port	Enter the port of the IP camera. The default is 554
Channel Path	If you want to view the stream of the specified channel, please configure the path of this stream.
Username	If a username and password are set on this device, fill in this field to allow the UCM to access the device.
Password	If a username and password are set on this device, fill in this field to allow the UCM to access the device.
Transmission Protocol	Transport protocol of the IP camera. Default is UDP.
Heartbeat Detection	If enabled, the PBX will regularly send RTSP OPTIONS to check of the device is still online.
Allowed Members	Extensions, Extension Groups, and Departments can be selected to access this IP camera by dialling the configured Device Number.

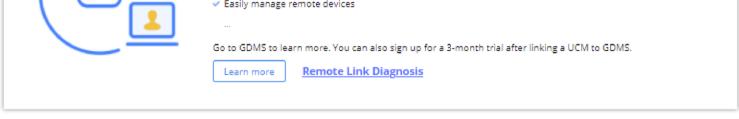
IPC Devices Settings

RemoteConnect

An integrated & important part of Grandstream's GDMS cloud-based device management service which runs on Amazon Web Services (AWS) with 99.999% reliability, the UCM RemoteConnect cloud service supports hassle-free Work-From-Home audio/video communications & collaborations using WebRTC-based license-free "Grandstream Wave" softphones for desktop/Web/mobile devices (plus GUV series of USB headsets/Webcams), zero-touch out-of-box automated NAT firewall traversal for remote users & devices, IT-friendly remote management of UCM and attached endpoint devices, and more.

The RemoteConnect can be configured under **Other Features**→**RemoteConnect** After purchasing the RemoteConnect package.

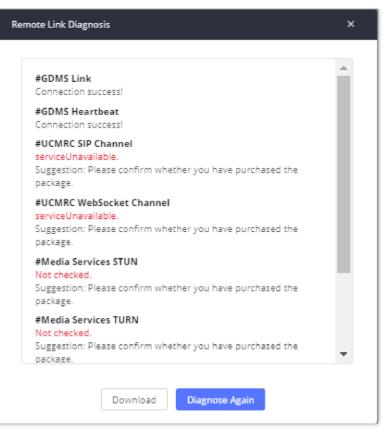
UCM RemoteConnect	
UCM RemoteConnect	
	For improved call quality and service, please purchase a Remote Work Suite package. ✓ Intelligent NAT penetration service will allow for stable and clear remote audio/video calls. ✓ Cloud storage service



RemoteConnect

On the GDMS platform, sign in and go to Device \rightarrow PBX Device page, click on "Add Device" to add your UCM6300 device to the GDMS system, once done an open beta plan will be assigned to the UCM.

In daily operation, the user can click the "Diagnosis" button to diagnose the remote service system. The specific diagnosis content includes media service (STUN/TURN), GDMS link and heartbeat detection, tunnel service (SIP/Web Socket), Cloud IM, UCM bandwidth speed measurement.



Remote Diagnosis

Re	RemoteConnect				
Plan	Plan Settings Ir	ntegrated Customer Service	Enterprise UI customization		
	Subscription Tier:	Basic 📿			
	Subscription Period:	Permanently Active			
	Plan Status:	Permanently Active			
	Max Remote Concurrent	2			
	Sessions:				
	Max Remote Users:	10			
	Max Time Per Remote	20 minute(s)			
	Call/Meeting:				
	Max Cumulative Time for Remote	120 minute(s)			
	Calls/Meetings Per Day:				
	Max Cumulative Time for Remote	Unlimited			
	Calls/Meetings Per Month :				
	GDMS Cloud Storage:	0 GB Upgrade			
	STUN Address:	nat-b.gdms.cloud			
	Wave RemoteConnect Address:	a.gdms.cloud 🗐			
	IP Endpoint/Trunk RemoteConne	ct .a.gdms.cloud:5061			
	Address:				
	Wayo 2rd Party Plug inc.	Not supported by the current plan			

UCM RemoteConnect Plan in Effect

After the UCM is added on GDMS, automated NAT traversal, SIP extension sync-up and basic statistics features are available without manual configuration required.

Plan Settings

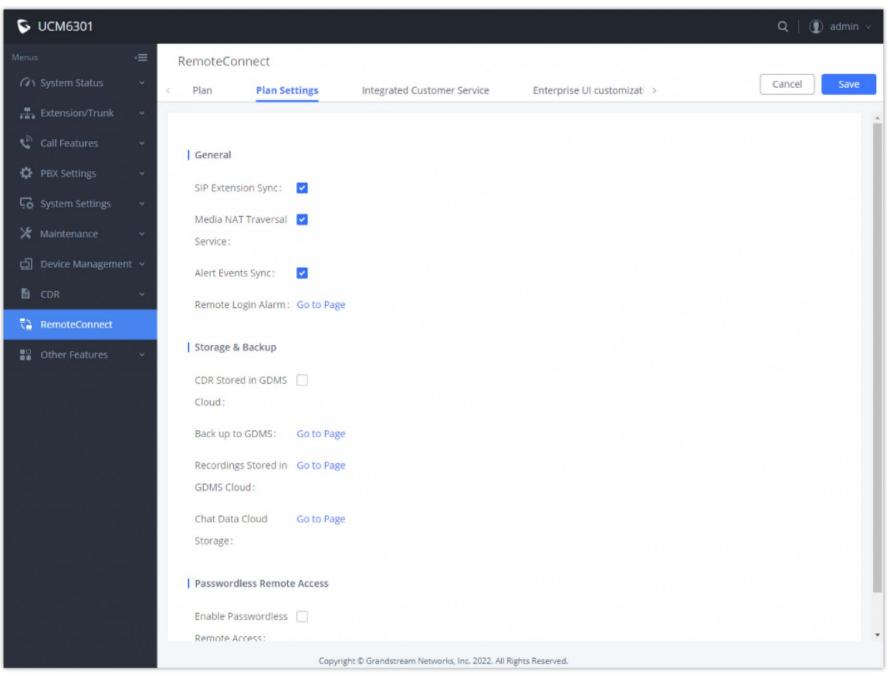
After UCM is added into GDMS, all SIP extensions on the UCM will be synced up to GDMS automatically for users to allocate and manage SIP extension for

their end devices. Also, the media NAT Traversal service, alert event sync configuration items are checked by default, the CDR data cloud storage in GDMS

should be manually checked according to user needs.

The UCM supports to allow authorized GDMS user to access UCM without entering the password once the super admin or admin checks "Enable Passwordless Remote Access". If super admin enables this option, then the UCM will be accessed using the super admin account. If admin enables this option, then the UCM will be accessed using the admin account. Super admin and admin can see whether this option is enabled. Additionally, super admin can disable all accounts who enabled this option while admin can only disable access for the account itself.

The settings are under UCM web GUI: **RemoteConnect→Plan Settings**.



UCM RemoteConnect Plan Settings

After adding UCM to the GDMS platform, UCM will synchronize all SIP extensions to the GDMS platform, this allows to use the GDMS platform for account allocation and terminal management.

The accounts synchronized to GDMS platform can be viewed on the GDMS-> VoIP Account->SIP Account page. As shown in the figure below:

🚱 GDMS							(👂 Plan & Service 🗸	📌 Abde	elGhomri
🕑 Dashboard		SIP Ac	count				Add Account	Import Account	Expor	t Account
A Organization	•		elete Modify S	ilP Server	All Status	✓ Site	✓ Q User	ID/Account/Name/Dev		
000 Overview			User ID ≑	Aurora Marana di	Diastas Nasa 🌢	510 Sec. 4	Contract of the second s	From		~
요 VolP Account	^			Account Name ¢	Display Name 🗢	SIP Server \$	Status Unassigned V	Date Modified \$	Options	8
SIP Account			1009 UCM	1009	_	192.168.5.167:5060 (192.168	Unassigned 🗸	2021/10/29 10:07	1	
SIP Server				1008	_	192.168.5.167:5060 (192.168	Unassigned 🗸	2021/10/29 10:07	C 🖬	
U VolP Device			1007 UCM	1007	_	192.168.5.167:5060 (192.168	Unassigned 🗸	2021/10/29 10:07	C 0	
é≟ò UCMRC	~			1006	-	192.168.5.167:5060 (192.168	Unassigned 🗸	2021/10/29 10:07	C 🗴	
හි Template	~		1001 UCM	1001	-	192.168.5.167:5060 (192.168	Unassigned 🗸	2021/10/28 16:08	C 0	
E Site			1005 UCM	1005	_	192.168.5.167:5060 (192.168	Unassigned 🗸	2021/10/21 10:42	C 🗴	
📰 Task			1004 исм	1004	-	192.168.5.167:5060 (192.168	Unassigned 🗸	2021/10/21 10:42	C 0	

UCM SIP Extensions synchronized to GDMS

The Media NAT Traversal provides a fully automatic intelligent external network penetration service to ensure that you can make normal calls/conferences on the external network.

CDR data cloud storage provides a service of dumping to GDMS to prevent CDR from continuously increasing occupying UCM storage space.

Alarm event synchronization is to synchronize the alarm information generated on UCM to the GDMS server.

UCM supports GDMS remote passwordless access. When this button is checked, GDMS remote access UCM does not need to enter the account password, and no login is required.

Allow the administrator/super administrator to open it. After clicking on open with an account, the subsequent password-free login will use the account. All administrators and super administrators can see whether this UCM is enabled.

Super administrators can check and uncheck all the exemption lists; administrators can check and uncheck the exemption status of this account, and the corresponding account exemption access function will be closed after cancellation.

Notes:

- Deleting an account on GDMS only removes the association between the account and the device, and does not delete the SIP account information on UCM.
- Any creation, deletion or modification of the SIP account on UCM will be automatically synchronized to the GDMS cloud platform.
- After checking the "Media NAT traversal service", the TURN service and other related traversal settings set by the user will not take effect.

Integrated Customer Service

To configure the Integrated Customer Service, go to the Web GUI \rightarrow RemoteConnect \rightarrow Integrated Customer Service page that allows users to download the SDK provided by the customer service system and integrate it on the website, so that the website can contact customer service for call operations. The call queue is used as the customer service number.

RemoteConn	ect			
Plan	Plan Settings	Integrated Customer Service	Enterprise UI customiza >	Cancel Save
WebRTC Trunk	s Go to Page			
Enable Click2C	all 🔽			
Destination	Extension	× ×		
	🛃 Downloa			
		© 2023 Grandstr	eam Networks, Inc.	

Enabling Click2Call will allow users to initiate a direct call from the web browser by clicking on the call button embedded on the website graphical interface.

The calls initiated can be directed to call queues or a specific extension.

Enterprise UI Customization

With a RemoteConnect plan, on the Web GUI \rightarrow RemoteConnect \rightarrow Enterprise UI Customization page, users can edit the company name and select a local image file as the new logo. The company name acts on the text part with the logo, and the pictures are in different formats and sizes according to the logo position, which are 64*64px (only ico format is supported), 256*256px, 80*80px, which supports users in the "UCM management platform/login" "", "Reset Password", "Email Template", "Wave_PC", "Wave Login", "Browser Label", "Guide Page" interface preview.

- LOGO 1: Replaces Browser tab icon
- LOGO 2: Replaces the Grandstream banner on the top left corner of the management login page and emails.
- LOGO 3: Replaces the Grandstream logo on the top left corner of the Wave Web interface and UCM management interface.

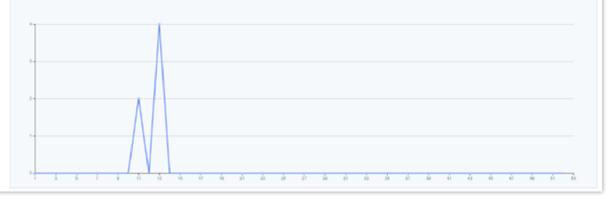
\$	UCM6302		Q 💽 admin v
	; •≡	RemoteConnect	
a	System Status 🗸 🗸	Plan Plan Settings Integrated Customer Service Enterprise UI customization	Cancel Save
. . .	Extension/Trunk ~	Preview: UCM Login	
Ś	Call Features 🗸	Company Name	
¢	PBX Settings ~	Please enter	
Ŀ0	System Settings	Logo	
⊁	Maintenance ~	It is recommended to not use blue, black, and white for	
ධ	Device Management 🗸		
B	CDR ~	format and cannot exceed 2MB in file size	
5	RemoteConnect	LOGO 1 80×80px	
	Other Features 🔷	Logo Upload	\triangleright
		LOGO 2 256x64px	
		Logo Upload	
		LOGO 3 64x64px (.ico)	
		Logo Upload	
		Copyright © Grandstream Networks, Inc. 2022. All Rights Reserved.	

Enterprise UI Customization

Statistics

After using UCM RemoteConnect, all remote calls will be logged and concurrent remote calls will be displayed on the UCM. The concurrent remote calls can be viewed under UCM web GUI \rightarrow Other Features \rightarrow UCM RemoteConnect \rightarrow Statistics page.

Measures the maximum	n number of concurrent RemoteConnect users by month.	
ime:	○ By Month	
latistics		



Concurrent Remote Calls

For more information, please visit http://ucmrc.gdms.cloud/intro.html and read our UCM63XX RemoteConnect guides

GDMS Cloud Storage Space

When the correspondent RemoteConnect plan is active, the user can access to a GDMS Cloud Storage Space to get an overview about how the storage space is being used. The data is represented in four categories of file types: CDR Data, Backup Data, Recording Files, and IM Files.

The user is also	able to see the names	of all the files stored in the	GDMS Cloud Storage Space.
The user is also	able to see the numes	of all the mes stored in the	ODIVID CIOUU DIOIUZE DPace.

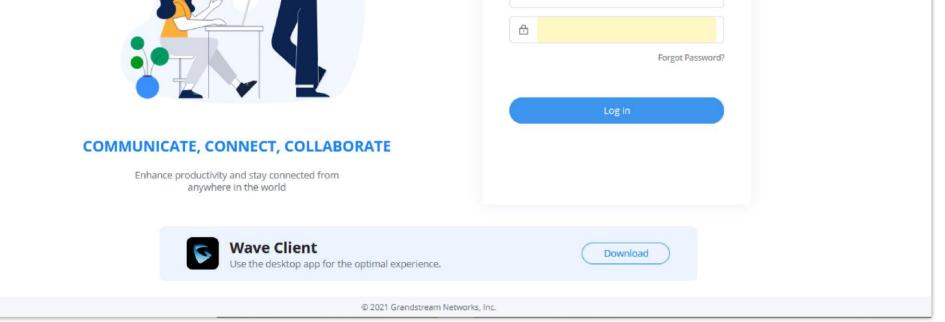
	customization Statistics	GDMS Cloud Stora	0-1		
GDMS Cloud Storage Status	Data Management				
	File Type: All · Stora	ge Time: 2022-04-0	01 💼 to	2022-04-25	Search Reset
	FILE NAME 🗢	FILE TYPE	FILE SIZE 🗢	STORAGE TIME 🗘	OPTIONS
Used	backup_2022425_140430.tar	Backup Data	24.12MB	2022-04-25 15:05:03	土 💼
24.12 MB/10.00 GB		< 1		Total: 1 10 / p	age 🗸 Goto 1
CDR Data 0.00%					
Backup Data 0.24%					
 Recording Files 0.00% 					
IM Files 0.00%					

GDMS Cloud Storage Space

UCM6300's Wave App

Wave is a mobile, desktop, and web App that provides remote voice and video collaboration tools for businesses utilizing Grandstream's UCM6300 series IP PBXs. For more information, please visit: https://ucmrc.gdms.cloud/intro.html and read our UCM63XX RemoteConnect guides

S Wave		\$
	Welcome to Wave	
	& Account	



Grandstream Wave Interface

For more details about the Wave Web, please refer to the following guides:

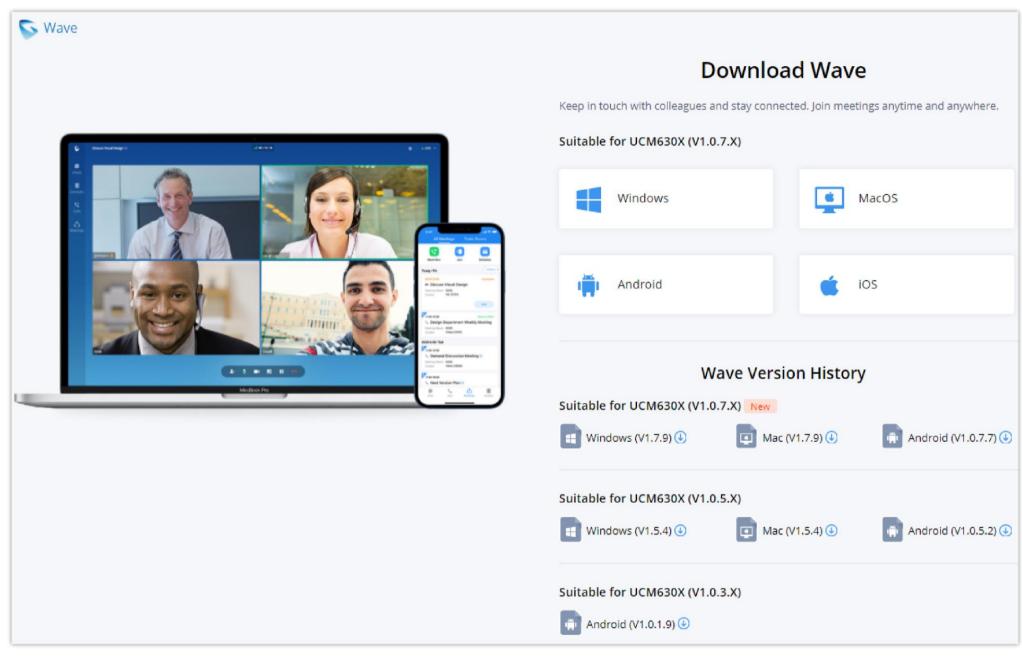
https://documentation.grandstream.com/knowledge-base/ucm630x-series-wave-web-administration-guide/

https://documentation.grandstream.com/knowledge-base/wave-web-user-guide/

Grandstream Wave is also available in Android/IOS version where it can be downloaded from Google Play or AppStore. For more details, please refer to the following guide:

https://documentation.grandstream.com/knowledge-base/wave-mobile-application-android-ios-user-guide/

Wave Desktop version is also supported in Windows and MacOS and can be downloaded from: https://fw.gdms.cloud/wave/download/



Download Wave Client

API CONFIGURATION

The UCM630X supports third party billing interface API for external billing software to access CDR and call recordings on the PBX. The API uses HTTPS to request the CDR data and call recording data matching given parameters as configured on the third-party application.

API Configuration Parameters

Before accessing the API, the administrators need enable API and configure the access/authentication information on the UCM630X first under Other

Features→API Configuration. The API configuration parameters are listed in the tables below.

1 Note

You can create multiple users with different login credentials to access to the HTTPS API.

Note

Username	The username for API Authentication.
Password	The password for API Authentication.
Call Control	If enabled, 3rd party applications will be able to manage inbound calls via API actions. acceptCall will accept incoming calls while refuseCall will reject them. If no actions are done within 10 seconds, calls will automatically be accepted.
Permitted IP (s)	Sets an IP address Access Control List (ACL) for addresses that are allowed to authenticate and register as this user. By default, this is not configured, allowing all IP addresses to register to this extension. The format is: "xxx.xxx.xxx/255.255.255.255.255

HTTPS API Settings (Old)	
Basic Settings	
Enable	Enable/Disable API. The default setting is disabled.
TLS Bind Address	Configure the IP address for TLS server to bind to. "0.0.0.0" means binding to all interfaces. The port number is optional, and the default port number is 8443. The IP address must match the common name (host name) in the certificate so that the TLS socket will not bind to multiple IP addresses. The default setting is 0.0.0.0:8443.
Username	Configure the username for TLS authentication.
Password	Configure the password for TLS authentication.
Permitted IP(s)	Specify a list of IP addresses permitted to use the API. This creates an API-specific access control list. Multiple entries are allowed. For example, "192.168.40.3/255.255.255.255.255" denies access from all IP addresses except 192.168.40.3. By default, this is blank, which indicates that no IP addresses are allowed to use this API.

Other Settings	
TLS Private Key	Upload TLS private key. The size of the key file must be under 2MB. This file will be renamed as 'private.pem' automatically.
TLS Cert	Upload TLS cert. The size of the certificate must be under 2MB. This is the certificate file (*.pem format only) for TLS connection. This file will be renamed as "certificate.pem" automatically. It contains private key for the client and signed certificate for the server.

API Module	
CDR API	Enable/disable CDR API module.
REC API	Enable/disable REC API module.
PMS API	Enable/disable PMS API module.

Table 123: Configuration Parameters (Old)

For more details on CDR API (Access to Call Detail Records), REC API (Access to Call Recording Files) and PMS API, please refer the document in the link here:

- https://documentation.grandstream.com/knowledge-base/cdr-rec-api/
- https://documentation.grandstream.com/knowledge-base/cdr-rec-api/
- PMS API

API Queries Supported

The new API supports now new queries listed below which will accomplish certain requests and get data about different modules on UCM630X.

Queries Supported
etSystemStatus
etSystemGeneralStatus
stAccount
etSIPAccount
pdateSIPAccount
stVoIPTrunk
ddSIPTrunk
etSIPTrunk
pdateSIPTrunk
eleteSIPTrunk
stOutboundRoute

addOutboundRoute	
getOutboundRoute	
updateOutboundRoute	
deleteOutboundRoute	
listInboundRoute	
addInboundRoute	
getInboundRoute	
updateInboundRoute	

deleteInboundRoute	
playPromptByOrg	
listBridgedChannels	
listUnBridgedChannels	
Hangup	
callbarge	
listQueue	
getQueue	
updateQueue	
addQueue	
deleteQueue	
loginLogoffQueueAgent	
pauseUnpauseQueueAgent	
listPaginggroup	
addPaginggroup	
getPaginggroup	
updatePaginggroup	
deletePaginggroup	
MulticastPaging	
MulticastPagingHangup	
listIVR	
addIVR	
getIVR	
updateIVR	
deleteIVR	
cdrapi	
recapi	
pmsapi	
quauaanigat	

queueapiget
getPinSets
addPinSets
updatePinSets
deletePinSets
cleanTerminalChatInformation
getSIPAccountQR
getCallQueuesMemberMessage

CDR Real-time Output Settings	
Enable	Enables real-time CDR output module. This module connects to selected IP addresses and ports and posts CDR strings as soon as it is available.
Server Address	CDR server IP address
Port	CDR server IP port
Upload Prompts User Configuration	
Username	Username used to upload prompts.
Password	Password used to upload prompts.

Table 125: API Configuration Parameters

Upload Voice Prompt via API

Customers now can use the "Upload Prompts User Configuration" to upload/replace voice prompt files as an alternative method to the manual upload method on UCM PBX Settings -> Voice Prompt -> Custom Prompt.

The workflow of the prompt file upload goes as:

An HTTP/HTTPS request is sent to the UCM to upload/replace a voice prompt file, the request should include authentication details to the UCM and the name of the file to be uploaded. Then the UCM will contact an FTP server that should be hosted on the same IP address of the HTTP/HTTPS requester and download the prompt file from the FTP server.

The steps and conditions to upload the voice prompt via API are listed below:

1. Configure the prompt User under Other Features → API Configuration → Upload Prompts User Configuration. By default, the username and password for voice prompt user are "Username: uploader; Password: uploader123".

HTTPS API Settings(New)	HTTPS API Settings(Old)	CDR Real-time Output Settings	Upload Prompts User Configuration	Cancel Save
Upload Prompts User Co	ofiguration			
• Username:	uploader			
A Deserver of a	under de 199			
Password :	uploader123			

Upload Prompt User Configuration

2. Hash the password of the user configured to an MD5 Encryption format.

3. Set the permission on the FTP server to Anonymous on the local computer hosting the FTP server and make sure that the default FTP port 21 is used.

4. Send an HTTP/HTTPS command to trigger the Prompt file upload on the UCM. If UCM's HTTP server is set to HTTPS, the example of the request sent to the UCM is:

https://192.168.124.89:8089/cgi?action=uploadprompt & username=uploader & password=9191a6394c21b3aabd779213c7179462& filename=test.mp3

If UCM's HTTP server is set to HTTP, the example of the request sent to the UCM is:

https://192.168.124.89:8089/cgi?action=uploadprompt & username=uploader & password=9191a6394c21b3aabd779213c7179462& filename=test.mp3.124.89:8089/cgi?action=uploadprompt & uploadprompt & up

Note: If the File name on the HTTP/HTTPS request exists already on the UCM's Custom voice prompts list the existing file will be overwritten by the new file downloaded from the FTP server.

For more details on CDR API (Access to Call Detail Records) and REC API (Access to Call Recording Files), please refer the document in the link here:

https://documentation.grandstream.com/knowledge-base/cdr-rec-api/

CTI SERVER

UCM does support CTI server capabilities which are designed to be a part of the CTI solution suite provided by Grandstream, including GXP21XX and GXP17XX enterprise IP phones along with GS Affinity app.

Mainly the UCM will by default listening on port TCP 8888 for the connections from GS affinity application in order to interact, modify and serve data requests by the application which includes setting call features for the connected extension as call forward and DND.

Users can change the listening port under the menu page, Web GUI→Other Features→CTI Server as shown on below screenshot:

CTI Server		Cancel	Save
* Port:	8888		

CTI Server Listening port

More information about GS affinity and CTI Support on Grandstream products series please refer to the following link:

https://documentation.grandstream.com/knowledge-base/gs-affinity-user-guide/

ASTERISK MANAGER INTERFACE (RESTRICTED ACCESS)

The UCM630X supports Asterisk Manager Interface (AMI) with restricted access. AMI allows a client program to connect to an Asterisk instance commands or read events over a TCP/IP stream. It is particularly useful when the system admin tries to track the state of a telephony client inside Asterisk.

User could configure AMI parameters on UCM630X Web GUI -> Other Features -> AMI. For details on how to use AMI on UCM630X, please refer to the

following AMI guide:

https://documentation.grandstream.com/knowledge-base/ami-asterisk-management-interface/

Please do not enable AMI on the UCM630X if it is placed on a public or untrusted network unless you have taken steps to protect the device from unauthorized access. It is crucial to understand that AMI access can allow AMI user to originate calls and the data exchanged via AMI is often very sensitive and private for your UCM630X system. Please be cautious when enabling AMI access on the UCM630X and restrict the permission granted to the AMI user. By using AMI on UCM630X you agree you understand and acknowledge the risks associated with this.

CRM INTEGRATION

Customer relationship management (**CRM**) is a term that refers to practices, strategies and technologies that companies use to manage and analyze customer interactions and data throughout the customer lifecycle, with the goal of improving business relationships with customers.

The UCM630X support the following CRMs: SugarCRM, VtigerCRM, ZohoCRM, Salesforce CRM and ACT! CRM, which allows users to look for contact information in the Contacts, Leads and / or Accounts tables, shows the contact record in CRM page, and saves the call information in the contact's history.

Sugar CRM

Configuration page of the SugarCRM can be accessed via admin login, on the UCM WebGUI→Other Features→CRM.

CRM		
CRM System:	SugarCRM	×
* CRM Server Address:	https://exasandbox.sugaropencloud.eu	
* Add Unknown Number:	Leads	v
Contact Lookups:	1 item Available Look up in Accounts table	2 items Selected ✓ Look up in Contacts table > Look up in Leads table ↑ ✓
		 ✓ ✓

SugarCRM Basic Settings

1. Select "SugarCRM" from the CRM System Dropdown in order to use SugarCRM.

CRM System	Select a CRM system from the dropdown menu, four CRM systems are available: Sugar CRM, Vtiger CRM, ZohoCRM (v1), Salesforce and ACT! CRM.
CRM Server Address	Enter the IP address of the CRM server.
Add Unknown Number	Add the new number to this module if it cannot be found in the selected module.
Contact Lookups	Select from the "Available" list of lookups and press 💿 oto select where the UCM can perform the lookups on the CRM tables, Leads, Accounts, and Contacts.

Table 126: SugarCRM Settings

Once settings on admin access are configured:



3. Logout from admin access.

4. Login to the UCM as user and navigate under "User Portal→Other Feature→CRM User Settings".

Click on "Enable CRM" and enter the username/password associated with the CRM account then click on Save and Apply Changes . The status will change from "Logged Out" to "Logged In". User can start then using SugarCRM features.

CRM User Settings	
Enable CRM :	✓
* Username :	GStest
* Password :	password@123
Login Status :	

CRM User Settings

Vtiger CRM

Configuration page of the VtigerCRM can be accessed via admin login, on the UCM WebGUI→Other Features→CRM.

CRM			
CRM System :	VtigerCRM	~	
* CRM Server Address:	http://vtiger.mydomain.com		
* Add Unknown Number :	Organizations	~	
Contact Lookups:	0 item Available	<	3 items Selected
		>	Look up in Organizatio
		•	Look up in Leads table
	None	^	Look up in Contacts ta
		~	
		4	

VtigerCRM Basic Settings

1. Select "Vtiger CRM" from the CRM System Dropdown in order to use Vtiger CRM.

CRM System	Select a CRM system from the dropdown menu, four CRM systems are available: Sugar CRM, Vtiger CRM, Zoho CRM (v2), Salesforce and ACT! CRM.
CRM Server Address	Enter the IP address of the CRM server.

Add Unknown Number	Add the new number to this module if it cannot be found in the selected module.
Contact Lookups	Select from the "Available" list of lookups and press 💿 💿 to select where the UCM can perform the lookups on the CRM tables, Leads, Organizations, and Contacts.

Table 127: VtigerCRM Settings

Once settings on admin access are configured:

2. Click on Save and Apply Changes .

3. Logout from admin access.

4. Login to the UCM as user and navigate under "User Portal→Other Features→CRM User Settings".

Click on "Enable CRM" and enter the username/password associated with the CRM account then click on Save and Apply Changes . The status will change from "Logged Out" to "Logged In". User can start then using SugarCRM features.

CRM User Settings					
Enable CRM :	✓				
* Username:	GStest				
* Password :	password@123				
Login Status :					

CRM User Settings

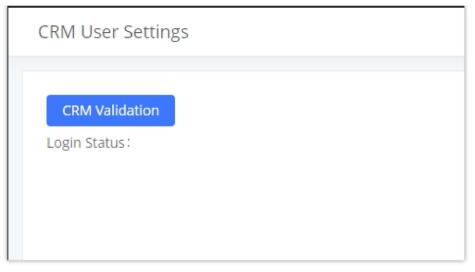
Zoho Telephony

Due to changes related to authenticating with ZohoCRM, Zoho's CRM integration setup process has been updated. The *Other Features* \rightarrow *CRM* page will appear as such when **Zoho Telephony** is selected.

CRM		
CRM System :	Zoho Telephony	~
CRM Server Region:	United States	^
* Add Unknown Number :	China	
Content Lockway	United States	
Contact Lookups:	Japan	em
	India	ok up in Contacts table
	Australia	
	European Union	
		+

Configure Zoho Telephony

Once the desired settings have been configured, save and apply changes. Next, log into the User Portal and navigate to *Other Features* \rightarrow *CRM User Settings*.



CRM User Settings

Click on the **CRM Validation** button, and the user will be redirected to the following page:

Sign in		
to access Accounts	Change	
ela qij pe dal sa car	Change	~ 🕤
Sign in using OTP	Forgot Password?	MFA for all accounts Secure online accounts with OneAuth 2FA. Back up OTP secrets and never lose access t
SIG	N IN	your accounts.
		Learn More

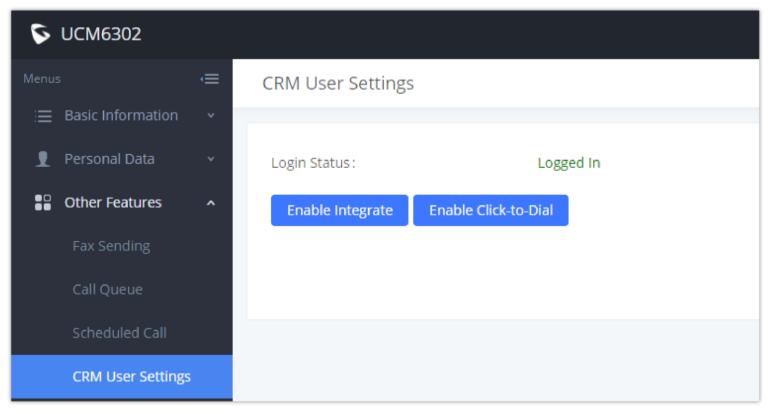
Enter your CRM account details and log in.

ZOHO
Brandstream Helworks
Har Here Hard would like to access the following information.
 Full access to Read, Create, Update and Delete resources in a module Manage metadata
Z PhoneBridge Zoho CRM- Ziele Caller
 Allow to log your calls inside Zoho To view user details to map them against their phone number/extension To View the information associated with the caller/callee
Accept Reject

Click on Accept.



Return to the UCM User Portal page. The CRM User Settings page should now look like the following:



CRM User Login Status

Users can then click on the Enable Integrate and Enable Click-to-Dial buttons to fully enable Zoho Telephony integration, which allows users to click on a

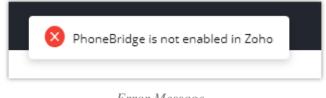
call button next to contacts in the CRM Contacts page to initiate calls between UCM extensions and CRM contacts.

Contacts	Accounts	Deals	Tasks	Services	Projects		Enterprise-Trial Q <u>UPGRADE</u>
t Name (As	c) Unsort						30 R
				Contact N	lame All -	•	Phone
				1692015	172		(469) 281 5172 🕓
				4002815	1/2		(469) 201-5172 🕓

Call Client

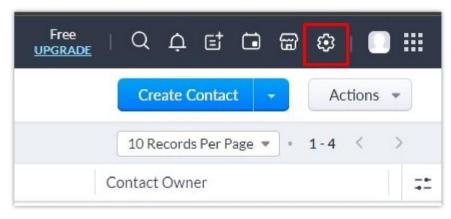
Installing Zoho Phonebridge

In the scenario where an error is received saying that Phonebridge has not been enabled, users may need to reinstall it.



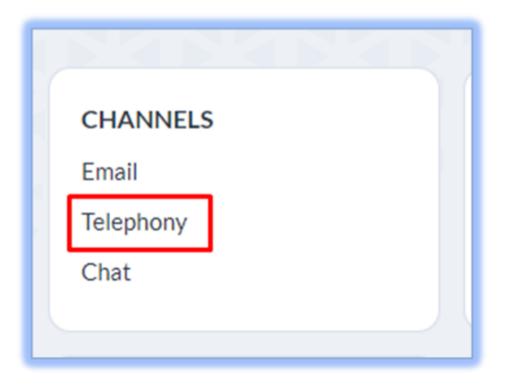
Error Message

To do so, go to https://crm.zoho.com/ click on the Settings icon in the top right corner of the Zoho CRM page.



Zoho Settings

Under the *Channels* section, click on *Telephony*.



Zoho Telephony Channels

The following page will appear:

					Search Provider	
Zoho Voice		oud PBX service and make busines	ss communication simple			
RingCentral	BT Cloud Phone	TELUS'	STAT Office Hand	Bulut Santralim.com	teltel	
	BT Cloud Phone	TELUS Business Connect	Office@Hand	Bulutsantralim	TelTel	

Zoho Telephony MarketPlace

Click on the search bar in the top right and search for "Grandstream". The following entry should appear:

Telephony MarketPlace

Click on it to see the following:

			UNIONE		
tup	6	Grandstream Networks	_		
Search		Grandstream Networks		Install	
eneral					
iers and Control					
ho Directory					



Grandstream Networks Integration Installation

Finally, click on the green **Install** button.

Setup	← Teleph ny MarketPlace Installed
Q Search	Grandstream Networks Grandstream Networks
 General Users and Control 	Details Uninstall
 Zoho Directory 	
Channels	
Email	
Telephony	
Social	
Chat	
Signals	

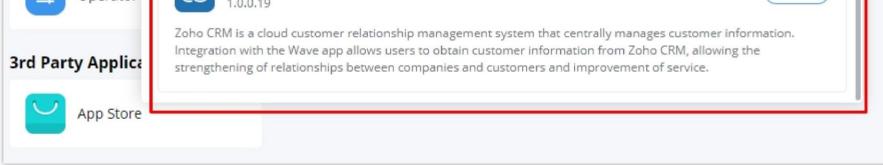
Integration Installed

Zoho Telephony Phonebridge is now installed. Users can now go back to the UCM User Portal to enable the integration and click-to-dial.

Installing Zoho Wave Add-in as an Alternative

Wave Desktop supports the installation of an add-in that works with UCM's Zoho Telephony integration to provide convenient access to CRM contact information. This is redundant with setting up integration from the User Portal. If Wave is used, it would be best to set up Zoho integration using only this method instead of the steps mentioned above. The add-in can be installed from the Wave App Store.

	App Store
Fax Files	productive customer relationships. Its integration with Wave allows users to obtain customer information from SugarCRM, providing many opportunities to connect and strengthen relationships with customers.
dditional Featu	Vtiger CRM 1.0.0.20
Fax Sendi	Vtiger CRM provides a platform for sales, marketing, and customers for the purpose of information management and business collaboration. This integration with Wave seeks to further the goal of improved customer relationships by allowing Wave users to obtain customer information easily and seamlessly from Vtiger CRM.
mart Devices	Zendesk 1.0.0.14
🗔 Door Syst	Zendesk is a fast, open, and flexible CRM platform that provides abundant customer-relationship management tools for maximum customer satisfaction. Zendesk integration with Wave further improves customer service capabilities,



Wave Desktop Zoho CRM Add-in

After selecting the desired server and clicking the Identity Authorization button, the following page will appear:

ZOHO
Wave_PluginCRM would like to access the following information.
 CRM Full access to Read, Create, Update and Delete user data in your organization Full access to Read, Create, Update and Delete resources in a module Manage metadata
Accept

Zoho Add-in Permissions

Click on Accept. The Wave authentication window should now change to this:

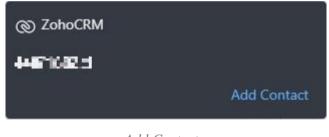
Soho CRM	-	×
https://accounts.zoho.com		
⇔ Switch Server		
Log in		
✓ Remember		
Learn more about Zoho CRM plans		

Log into Zoho CRM

has	lōgged in	Log	out	
Sync Wave call h	istory to CRM system			
Contact card int	ormation			
information 1	Name		\vee	
information 2	Phone		\vee	
information 3	None		\vee	
information 4	None		\vee	
information 5	None		\sim	

Zoho CRM Information

From here, users will be able to select the information they would like to see on call notification cards when receiving calls from CRM contacts. This information can be modified from the CRM portal.





If the caller is an unknown number, users can add it as a new contact into the CRM system. Clicking on the **Add Contact** button will redirect users to the Zoho CRM portal's **Create Contact** page, where users can manually fill in the contact information.

Create Contact Edit Page Layout	Cancel Save and New Save
Contact Image	
Contact Information	

Contact Owner	寅锟丁 ▼ &	Lead Source	-None-	
First Name	-None- 💌	Last Name		
Account Name		Vendor Name	B	
Email		Title		
Phone		Department		
Other Phone		Home Phone		
Mobile		Fax		
Assistant		Date of Birth	MMM D, YYYY	

Create Contact

1 Note

It seems like Wave cannot automatically fill in the phone number information of an unknown caller. However, if the UCM admin portal's CRM settings were configured to automatically add unknown numbers as contacts, then this step would be redundant as the contact would already be created upon receiving the call. The users would need to locate the newly created contact in the **Contacts** page and edit the contact information accordingly.

Salesforce CRM

Configuration page of the Salesforce CRM can be accessed via admin login, on the UCM Web GUI**→Other Features→CRM**".

CRM	
CRM System:	Salesforce v
* Add Unknown Number:	Contacts ~
Contact Lookups:	1 item Available 2 items Selected Look up in Leads table Look up in Contacts table Look up in Accounts table Look up in Accounts Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table Image: Contact table <

Salesforce Basic Settings

1. Select "Salesforce" from the CRM System Dropdown in order to use Salesforce CRM.

CRM System	Select a CRM system from the dropdown menu, four CRM systems are available: SugarCRM, VtigerCRM, ZohoCRM (v1&v2), Salesforce and ACT! CRM.	
Add Unknown Number	Add the new number to this module if it cannot be found in the selected module.	
Contact Lookups	Select from the "Available" list of lookups and pressto select where the UCM can perform the lookups on the CRM tables,Leads, Accounts, and Contacts.	

3. Logout from admin access.

4. Login to the UCM as user and navigate under "User Portal→Other Features→CRM User Settings".

.

Click on "**Enable CRM**" and enter the **username**, **password** and **Security Token** associated with the CRM account then click on and . The status will change from "Logged Out" to "Logged In". User can start then using Salesforce CRM features.

CRM User Settings	
Enable CRM :	✓
* Username :	user@domain
* Password:	pjdajdlka123@!
* Security Token :	mkjhamjkhnfdjkeFZEfljxwa!@jkjhbamklcel
Login Status :	

Salesforce User Settings

ACT! CRM

Configuration page of the ACT! CRM can be accessed via admin login, on the UCM Web GUI→Other Features→CRM".

The configuration steps of the ACT! CRM are as follows:

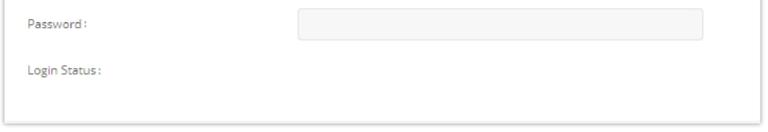
1. Navigate to **Other Features→CRM** and select the "ACT! CRM" option.

CRM		
CRM System :	ACT! CRM	~

Enabling ACT! CRM

2. Log into the UCM as a regular user and navigate to **Other Features→CRM User Settings** and check "Enable CRM" option and enter the username and password, which will be the ACT! CRM account's **API Key** and **Developer Key**, respectively. To obtain these, please refer to the ACT! CRM API developer's guide here: https://mycloud.act.com/act/Help

CRM User Settings	
Enable CRM :	
Username :	



Enabling CRM on the User Portal

PMS INTEGRATION

UCM630X supports Hotel Property Management System PMS, including check-in/check-out services, wakeup calls, room status, Do Not Disturb which

provide an ease of management for hotel applications. This feature can be found on Web GUI**→Other Features→PMS.**

① The PMS integration on UCM is currently supported only with one of the four following solutions.

The PMS module built-in the UCM supports the following features based on each solution:

Feature	Mitel	HMobile	HSC	IDS
Check-In	\checkmark	\checkmark	X	\checkmark
Check-out	√	\checkmark	X	\checkmark
Wake-up Call	\checkmark	\checkmark	×	\checkmark
Name Change	√	×	\checkmark	X
Update	X	\checkmark	X	\checkmark
Set Credit	√	X	X	X
Set Station Restriction	\checkmark	X	\checkmark	X
Room Status	X	\checkmark	Х	\checkmark
Room Move	X	\checkmark	X	\checkmark
Do Not Disturb	X	\checkmark	\checkmark	X
Mini Bar	X	\checkmark	X	\checkmark
MSG	X	\checkmark	X	X
MWI	X	X	\checkmark	X
Unconditional Call Forward	X	X	\checkmark	X

HMobile PMS Connector

In this mode, the system can be divided into three parts:

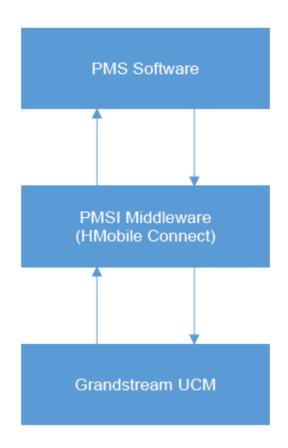
- PMS (Property Management System)
- PMSI (Property Management System Interface)
- PBX

Grandstream UCM6XXX series have integrated HMobile Connect PMSI which supports a large variety of PMS software providing following hospitality

features: Check-in, Check-out, set Room Status, Wake-up call and more.

The following figure illustrates the communication flow between the UCM and PMS software, which is done through a middleware system (HMobile

Connect) acting as interface between both parties.



UCM & PMS interaction

HSC PMS

In this mode, the system can be divided into two parts:

- PMS (Property Management System)
- PBX

Grandstream UCM6XXX series have integrated HSC PMS providing following features:

- Changing Display Name
- Set Station Restriction
- Call forwarding
- DND
- Name Change
- MWI

1. Added support for receiving HTTP GET keep-alive messages from HSC PMS. This will allow the PMS to be aware of its connection to the UCM and

take the appropriate actions such as raising alarms, sending notifications, etc.

2. Added support for HTTP GET requests from HSC PMS to retrieve UCM extension information. UCM can provide the following information:

• extension – UCM extension number

• name – extension display name / CID name

• mwi – MWI state

• permission – permission level of the extension

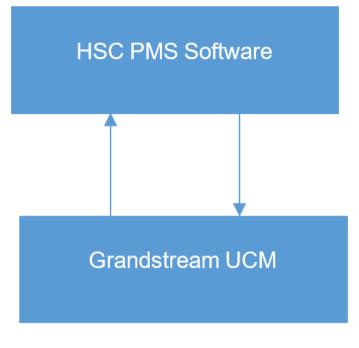
• cfwt – call forwarding always number

- dnd DND state
- language display language of the extension in ISO 639-1 format

The UCM should respond with either 200 OK or 404 responses.

1. Added HTTPS support

The following figure illustrates the communication flow between the PBX (Grandstream UCM6xxx Series) and PMS software (HSC). The communication between both parties is direct with no middleware.



UCM & HSC PMS interaction

Mitel PMS

In this mode, the system can be divided into two parts:

- PMS (Property Management System)
- PBX

Grandstream UCM6XXX series have integrated Mitel PMS providing following hospitality features: Check-in, Check-out, set Room Status, Wake-up call and more.

The following figure illustrates the communication flow between the PBX (Grandstream UCM6xxx Series) and PMS software (Mitel). The communication between both parties is direct with no middleware.

Mitel PMS Software

Grandstream UCM

Figure 276: UCM & Mitel PMS interaction

IDS PMS

In this mode, the system can be divided into two parts:

• PMS (Property Management System)

• PBX

The Grandstream UCM series integrates IDS PMS to set room status, Mini Bar, wake up calls, activate/deactivate dialing permissions, and more.

Figure 277: UCM & IDS PMS interaction

PMS API

The PMS API allows users to use their own middleware to work with PMS systems instead of currently supported integrations.

Additionally, this API allows access to read and modify certain UCM parameters that current supported PMS integrations cannot. To use this, users must first enable and configure the HTTPS API settings.

For more details, please refer to online https://documentation.grandstream.com/knowledge-base/https-api/, Pmsapi section.

Connecting to PMS

On the UCM WebGUI→Other Features→PMS→Basic Settings" set the connection information for the PMS platform.

Field

	Users can select the desired PMS module from the drop-down list.
	• Hmobile
PMS Module	• Mitel
	• HSC
	• IDS
	• PMS API
Wakeup Prompt	A customized prompts that can be played when the wakeup call is answered. To customize it please navigate to PBX Settings \rightarrow Voice Prompt \rightarrow Custom Prompt

Username	This username is used to authenticate into the PMS API.
Password	This password is used to autheticate into the PMS API.
Back Up Voicemail Recordings	Back up voicemail recordings to external storage after check-out.
Automatically Clear Wakeup Calls	 Scheduled wakeup calls for rooms can be cleared upong checking in or checking out. None: The wakeup calls won't be automatically cleared. Check out: The wake up calls assigned to the guest will be cleared when they check out. Check In: The wake up calls assigned to a guest will be cleared when a new client checks in.
Automatically Clear Wave Chat History	If enabled, room Wave chat history will be automatically cleared upon check-in or check-out.
Automatically Reset User/Wave Password	If enabled, the User/Wave password of the room extension will be automatically reset to a random password upon check-out.

In order to use some PMS features please activate the feature code associated under "Call Features -> Feature Codes"

- Update PMS Room Status
- PMS Wake Up Service

PMS Features

Room Management

In Room Management tab, the user can create a room and affect up to two extensions to it. This will appear in Room Status tab, and from there the user can change the Check-in/Check-out

Create New Room

Call Privileges allows the administrator to set the level of call privilege of the room.

Room Status

Figure 278: Check-in a Client

After clicking "OK" the client entry will be added to the list.

The user can click on **Check-in/Check-out Records** to view the history of the checked-in and checked-out guests.

1 Note

The Call Privilege configured during a guest's check-in will be reset to the room's default call privilege upon guest check-out.

Wake Up Service

In order to create a New Wake up service, user can click on "Add", the following window will pop up:

Create New Wakeup S	ervice	
* Room Number:	1000	~
* Select Time :	2019-12-12 🛅 08	8:00
* Action Status:	Programmed	×
Type:	Single	V

Create New Wake Up Service

Field	Description
Room Number	Select the room number where to call with a limitation of 63 characters.
Select Time	Set the time of the wakeup call
Action Status	 Show the status of the call: Programmed: the call is scheduled for the time set Cancelled: the call is canceled Executed: the wakeup call is made Note: Editing an already executed wakeup service will automatically change the service's status to "Programmed".
Туре	 Single: The call will be made once on the specific time. Daily: The call will be repeated every day on the specific time

Table 132: PMS Wake up Service

Once the call is made on the time specified, the following figure show the status of the wakeup call.

ROOM NUMBER \$	ACTION STATUS \$	TYPE \$	ANSWER STATUS \$	DATE	TIME	OPTIONS
1000	Programmed	Single	No action	2019-12-12	08:00	Ľ 💼

Wakeup Call executed

This call has been executed but has been rejected, that why we can see the "Busy" status.

Maid

In order to create a new maid, click on

under UCM WebGUI**→Other Features→PMS→Maid**.

Create New Maid	
* Maid Code:	1000
* Password :	15963

Create New Maid

Maid Code	Enter the Code to use when the maid wants to use the Mini Bar.
Password	Enter the password associated with the maid.

Table 134: Create New Maid

In order to create a new consumer goods, click on

under UCM WebGUI**→Other Features→PMS→Mini Bar,** the following

window will popup.

Create New Consume	r Goods	
* Code:	1000	
* Name:	cola	

Create New Consumer Goods

Code	Enter the Goods Code.
Name	Enter the Name of the Goods

The Minibar page displays as:

PMS							
Basic Settings	Room Status	Wakeup Service	Mini Bar	Maid			
+ Add Mini Bar							
CODE					NAME	OPTIC	ONS
4000					MiniBar	Ľ	
+ Add Consumer C	Goods						
CODE \$					NAME \$	OPTIC	ONS
1000					cola	Ľ	

Mini Bar

1 Note

Please note that you can dial the "Update PMS Room Status" feature code, the "Maid" feature code, and the "Room Status" feature code all at once to change the room status.

Local PMS

UCM6300 series offer a local Property Management System to give the user basic management features without having to purchase a PMS for the most basic property management actions. In addition to Room Management, Rooms Status for checking-in and checking-out, Wakeup Service, Mini Bar, and Maid functions, the UCM6300 allows a number of additional functions upon checking-out, like backing up voicemail recordings, clearing wakeup calls and Wave history automatically, in addition to resetting Wave's password. The user can use the Local PMS feature to check-in and check-out clients from the web user interface.

Local PMS

Field	Description
PMS Module	Users can select the desired PMS module from the drop-down list. • Hmobile • Mitel • HSC • IDS • PMS API
Wakeup Prompt	A customized prompts that can be played when the wakeup call is answered. To customize it please navigate to PBX Settings \rightarrow Voice Prompt \rightarrow Custom Prompt
Username	This username is used to authenticate into the PMS API.
Password	This password is used to autheticate into the PMS API.
Back Up Voicemail Recordings	Back up voicemail recordings to external storage after check-out.
	Scheduled wakeup calls for rooms can be cleared upong checking in or checking out.

Automatically Clear Wakeup Calls	 None: The wakeup calls won't be automatically cleared. Check out: The wake up calls assigned to the guest will be cleared when they check out. Check In: The wake up calls assigned to a guest will be cleared when a new client checks in.
Automatically Clear Wave Chat History	If enabled, room Wave chat history will be automatically cleared upon check-in or check-out.
Automatically Reset User/Wave Password	If enabled, the User/Wave password of the room extension will be automatically reset to a random password upon check-out.

WAKEUP SERVICE

The Wake Up service can be used to schedule a reminder or wake up calls to any valid destination. This service is available on the UCM630X as a separated module.

There are three ways to set up Wakeup Service:

- Using admin login
- Using user portal
- Using feature code

Wake Up Service using Admin Login

- 1. Login to the UCM as admin.
- 2. Wake Up service can be found under Web GUI→Other Features→Wakeup Service, click on "Add" to create a new wakeup service. The following window will pop up.

Create New Wakeup	Service		
Enable Wakeup Service :	✓		
* Name:	GS_Wakeup		
Prompt:	wakeup-call	~	Prompt
Custom Date:			
* Date:	2017-08-11		
* Time:	14:00	٢	
Members:	3 items Available		2 items Selected
	Search Q		Search Q
	1002	<	1000
	1003	>	1001
	1004		

Enable Wakeup Service	Enable Wakeup service.
Name	Enter a name (up to 64 characters) to identify the wakeup service.
Prompt	Select the prompt to play for that extension.

Custom Date	If disabled, users can select a specific date and time.
	If enabled users can select multiple days of the week to perform the wakeup.
Date	Select the date or dates when to performs the wakeup call.
Time	Select the time when to play the wakeup call.
Members	Select the members involved within the wakeup service group.

Table 135: Wakeup Service

4. Click Save and Apply Changes to apply the changes.

A wakeup service entry is created. The UCM will send a wakeup call to every extension in the member list at the scheduled date and time.

Note: the wakeup service has the following limitation on how many members can be added depending on UCM model.

UCM Model	Max members in a Wakeup Service
UCM6301	50
UCM6302	100
UCM6304	150
UCM6308	200

Table 136: Max Wakeup Members

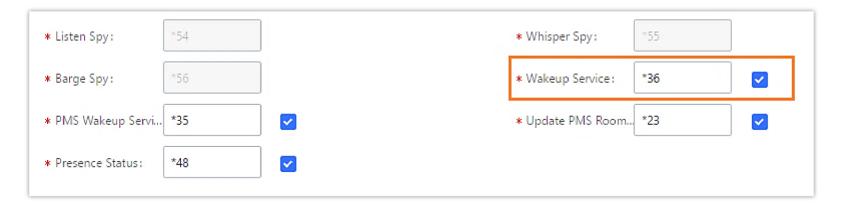
Wake Up Service from User Portal

- 1. Login to the user portal on the UCM630X.
- 2. Wake Up service can be found under "Other Features→Wakeup Service", click on "Add" to create a new wakeup service.
- 3. Configures the Name, Prompt, Date and Time for the user to make the wakeup to.
- 4. Click Save and Apply Changes to apply the changes.

Wake Up Service using Feature Code

1. Login to the UCM as admin.

2. Enable "Wakeup Service" from the Web GUI under "Call Features → Feature Codes".



3. Click Save and Apply Changes to apply the changes.

4. Dial "*36" which is the feature code by default to access to the UCM wakeup service to add, update, activate or deactivate UCM wakeup service.

ANNOUNCEMENT CENTER

The UCM630X supports Announcement Center feature which allows users to pre-record and store voice message into UCM630X with a specified code. The users can also create group with specified extensions. When the code and the group number are dialed together in the combination of **code** + **group number**, the specified voice message is sent to all group members and only extensions in the group will hear the voice message.

UCM6301	Security level of curren forgotten your passwo	it username or password is too low. Click here ird, please enter an email address so that a pa:	to change them. If you have ssword reset email may be sent.	Q	🜒 admin v
🗥 System Status 🗸 🗸	Announcement Center				
击 Extension/Trunk 🗸	+ Add Announcement Center				
🗳 Call Features 🗸 🗸	CODE \$	NAME \$		OPTIONS	
🗘 PBX Settings 🗸 🗸	55	Announcement_1			
📮 System Settings 🗸 🗸				< 1 > Total: 1 10 / page ~	Goto 1
👤 Contacts 🗸 🗸					
丘 Device Management ~	+ Add Group				
🗶 Maintenance 🗸 🗸	NUMBER \$	NAME 🗢	MEMBERS		OPTIONS
🖹 CDR 🗸 🗸	33	Group_1	1001 1002 1005		r 💼
रि RemoteConnect				< <u>1</u> > Total: 1 10 / page ~	Goto 1
Cther Features					
Zero Config					
API Configuration					
AMI					
CTI Server					
CRM					
PMS					
Wakeup Service					
Fax Sending					
Announcement Cen					
QueueMetrics	Cop	yright © Grandstream Networks, Inc. 2022. All R	lights Reserved.		

Figure 288: Announcement Center

Announcement Center Settings

Name	Configure a name for the newly created Announcement Center to identify this announcement center.
Code	Enter a code number for the custom prompt. This code will be used in combination with the group number. For example, if the code is 55, and group number is 666. The user can dial 55666 to send prompt 55 to all members in group 666. Note: The combination number must not conflict with any number in the system such as extension number or conference number.
Custom Prompt	This option is to set a custom prompt as an announcement to notify group members. The file can be uploaded from page 'Custom Prompt'. Click 'Prompt' to add additional record.
Ring Timeout	Configure the ring timeout for the group members. The default value is 30 seconds.
Auto Answer	If set to Yes , the Auto answer will be enabled by the members.

Group Settings

Name	Configure a name for the newly created group to identify the group. Note: Name cannot exceed 64 characters.
Number	Configure the group number. The group number is used in combination with the code. For example, if group number is 666, and code is 55. The user can dial 55666 to send prompt 55 to all members in group 666. Note: The combination number must not conflict with any number in the system such as extension number or conference number and cannot exceed 64 characters.
Members	Select the group members from the available list.

Announcement Center feature can be found under Web GUI→Other Features→Announcement Center. The following example demonstrates the usage of this feature.

- 1. Click + Add Group to add new group.
- 2. Give a name to the newly created group.
- 3. Create a group number which is used with code to send voice message.
- 4. Select the extensions to be included in the group, who will receive the voice message.

Cri	ant	o N	0147	Cr	0.0	5
CI	eau		ew	GI	ou	Ρ.

* Name :	GStest			
* Number:	666			
Members:	27 items	Available	3 items	Selected
	Search	Q	Search	Q
	1003	^	1000	
	1004	<	1001	
	1005		1002	
	1006			
	1007	-		

Figure 289: Announcement Center Group Configuration

6. Give a name to the newly created Announcement Center.

7. Specify the code which will be used with group number to send the voice message to.

8. Select the message that will be used by the code from the Custom Prompt drop down menu. To create a new Prompt, please click "Prompt" link and follow the instructions in that page.

Create New Announcement	t Center
* Name :	GStest

* Name :	GStest	
* Code :	55]
* Custom Prompt:	Lee_Rosevere12Were_Almost_There \vee	🔥 Upload Audio File
* Ring Timeout:	30]
* Auto Answer:	No v]

Figure 290: Announcement Center Code Configuration

Code and Group number are used together to direct specified message to the target group. All extensions in the group will receive the message. For example, we can send code 55 to group 666 by dialing 55666 from any extension registered to the UCM630X. All the members in group 666 which are extension 1000, 1001 and 1002 will receive this voice message after they pick up the call.

Announcement Center				
+ Add Announcement Center				
CODE 🗘	NAME 🗘		OPTIONS	
55	GStest		C 💼	
		< 1 >	Total:	10 / page × Goto 1
+ Add Group				
NUMBER \$	NAME 🗢	MEMBERS		OPTIONS
666	GStest	1000 1001 1002	1	r 💼
		< 1 ≥	Total:	10 / page Y Goto 1

Figure 291: Announcement Center Example

QUEUEMETRICS

The QueueMetrics docking tool provides an interface for UCM system and QM docking. Pass the UCM call queue report to QueueMetrics in a richer form. QueueMetrics is a call center control platform that supports login and logout of frequently used agents in the call center, provides call reports, real-time queue monitoring and other functions.

Enable QueueMetrics	
* QueueMetrics URL :	
* Username :	
* Webgloader Password :	
Partition:	

Figure 292: QueueMetrics

Enable QueueMetrics Integration	Disabled by default.
QueueMetrics URL	Enter the URL of the QueueMetrics on-premise server you have installed. (i.e. http://xxx.xxx.xxx:8080/queuemetrics.). Note: Under normal circumstances, the user is a webqloader type user of Queue Metrics. You must ensure that the user is enabled, otherwise the connection will fail.

Username	Configure the username
Webqloader Password	Configure the user password.
Partition	Configure the data storage partition identifier.

Table 139: QueueMetrics configuration parameters

STATUS AND REPORTING

PBX Status

The UCM630X monitors the status for Trunks, Extensions, Queues, Conference Rooms, Interfaces, Storage Device Life (eMMC lifetime), the number of public/random video meeting and Parking lot. It presents administrators the real-time status in different sections under Web GUI→System Status→Dashboard.

Figure 293: Status→*PBX Status*

Trunks

Users could see all the configured trunk status in this section.

Trunks			
O ²	●Availab	● Busy	0
Total	● Abnormal	●Unmonit	0

Fax_Line	•
BranchOffice	•
 <u>1</u> 	2

Figure 294: Trunk Status



	- Available
	- Busy - Unavailable
	- Unknown Error
	• SIP Peer trunk status:
	- Unreachable: The hostname cannot be reached.
	- Unmonitored: Heartbeat feature is not turned on to be monitored.
	- Reachable: The hostname can be reached.
	• SIP Register trunk status:
	- Registered
	- Unrecognized Trunk
Trunks	Display trunk name
	Display trunk Type:
Туре	• Analog
U X	• SIP
	• IAX
Username	Display username for this trunk.
Port/Hostname/IP	Display Port for analog trunk, or Hostname/IP for VoIP (SIP/IAX) trunk.

Extensions

Extensions Status can be seen from the same configuration page, users can go under Web $GUI \rightarrow Extension/Trunk \rightarrow Extensions$ and following page will be displayed listing the extensions and their status information.

STATUS \$	PRESENCE STA \$	EXTENSION \$	NAME \$	TYPE 💠	IP AND PORT \$	EMAIL \$	OPTIONS
Ringing	Available	1000		SIP(WebRTC)	192.168.5.199:5070	e C	の 🖰 🛅
 Unavailab 	le Available	1001		SIP(WebRTC)		e C	49 U 🛅
🗌 🔹 In Use	Available	5555		SIP(WebRTC)	192.168.5.199:63827	e C	のじ 💼

Figure 295: Extension Status

Display extension number (including feature code). The color indicator has the following definitions.

	• Green: Free
Status	• Blue: Ringing
	• Yellow: In Use
	• Grey: Unavailable
Presence Status	Display the presence status of the extension.
Extension	Display the extension number.

Name	First name and last name of the extension.		
IP and Port	Display the IP and port number of the registered device.		
Email	Display Email Notification status for the extension. When notification is waiting for be sent, shows and once sent it will display		
Terminal Type	 Displays extension type. SIP User IAX User Analog User Ring Groups Voicemail Groups 		

Table 141: Extension Status

Interfaces Status

This section displays interface/port connection status on the UCM630X. The following example shows the interface status for UCM6304 with USB, WAN port, FXS1, FXS2 and FXO1 connected.

Interface Status	
USB 1	
USB 2	
SD Card	
LAN	
Heartbeat	
FXS	00
FXO	0 8

Figure 296: UCM6304 Interfaces Status

USB connected.

USB disconnected.
SD Card connected.
SD Card disconnected.

LAN/WAN connected.
LAN/WAN not configured.
LAN/WAN disconnected.
FXS/FXO connected.
FXS/FXO waiting.
FXS/FXO busy.
FXS/FXO not configured.
FXS/FXO disconnected.

Table 142: Interface Status Indicators

System Status

The UCM630X system status can be accessed via Web GUI→Status→System Status, which displays the following system information.

General

Under Web GUI→System Status→System Information→General, users could check the hardware and software information for the UCM630X. Please see details in the following table.

System Status →System Information→General	
Model	Product model.
Part Number	Product part number.

System Time	Current system time. The current system time is also available on the upper right of each web page.
Up Time	System up time since the last reboot.
Boot	Boot version.
Core	Core version.
Base	Base version.

Program	Program version. This is the main software release version.
Recovery	Recovery version.
Lang	Lang version
Wave	Wave version

Table 143: System Status→General

Network

Under Web GUI \rightarrow System Status \rightarrow System Information \rightarrow Network, users could check the network information for the UCM630X. Please see details in the following table.

System Status→System Status→Network	
MAC Address	Global unique ID of device, in HEX format. The MAC address can be found on the label coming with original box and on the label located on the bottom of the device.
IPv4 Address	IPv4 address.
IPv6 Address Link	IPv6 address
Gateway	Default gateway address.
Subnet Mask	Subnet mask address.
DNS Server	DNS Server address.
Duplex Mode	Duplex Mode
Speed	Speed

The UCM admin could add remark on UCM web UI->System Status->System Information->Remark to log any necessary information for the UCM such as location, technical contacts, important topology information and etc. This could be useful for UCM admin especially when there are multiple UCMs to be managed.

If this UCM has UCMRC service, the remark will also be sync up to GDMS. If this information is edited on GDMS, it will also be updated to the UCM web UI.

Menus	·=	System Inf	ormation		
🗥 System Status	^	General	Network	Remark	
Dashboard					
System Information	1	Remark:			
Active Calls					
Network Status					
Extension/Trunk	~				
🔮 Call Features	~			11.	
PBX Settings	~				

Figure 297: System Status \rightarrow System Information \rightarrow Remark

Storage Usage

Users could access the storage usage information from Web GUI→System Status→Dashboard→Storage Usage. It shows the available and used space for Space Usage and Inode Usage.

Space Usage includes:

• Configuration partition

This partition contains PBX system configuration files and service configuration files.

• Data partition

Voicemail, recording files, IVR file, Music on Hold files etc.

• USB disk

USB disk will display if connected.

• SD Card

SD Card will display if connected.

Inode Usage includes:

• Configuration partition

• Data partition

Note:

Inode is the pointer used for file reference in the system. The system usually has limited resources of pointers

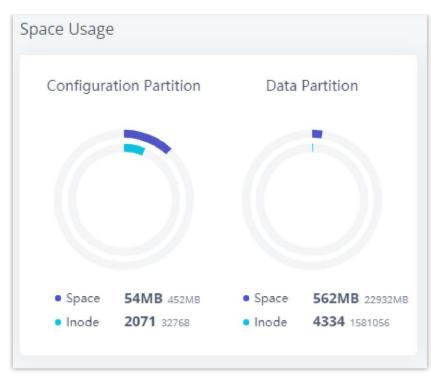


Figure 298: System Status→Storage Usage

Resource Usage

When configuring and managing the UCM630X, users could access resource usage information to estimate the current usage and allocate the resources accordingly. Under Web GUI \rightarrow System Status \rightarrow Dashboard \rightarrow Resource Usage, the current CPU usage and Memory usage are shown in the pie chart.

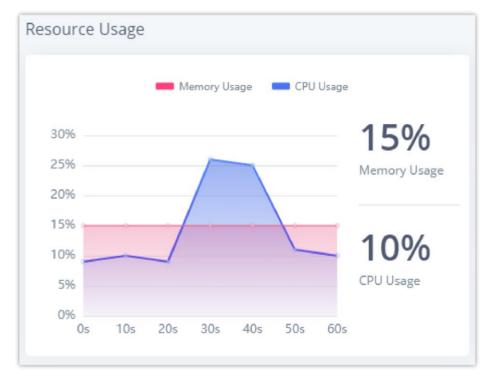


Figure 299: System Status→*Resource Usage*

System Events

The UCM630X can monitor important system events, log the alerts, and send Email notifications to the system administrator.

Alert Events List

The system alert events list can be found under Web GUI -> Maintenance -> System Events. The following event and their actions are currently supported

on the UCM630X which will have alert and/or Email generated if occurred:

Figure 300: Alert Event List

Alert Events
Fail2ban Blocking
Flood Attacks
Network Traffic Storm
User Login Banned
Remote Login
User Login Success
User Login Failed
System Crash
Restore Config

System Update
System Reboot
TLS Cert Expiration
HA Failure Warning
Cloud IM Abnormal

Modify Super Admin Password

Data Sync Backup

Local Disk Usage

External Disk Usage

Extended Disk Status

Emergency Calls

SIP Outgoing Call through Trunk Failure

SIP Internal Call Failure

Remote Concurrent Calls

Excessive Outbound Calls

Long Outbound Call Duration

Trunk Outbound Call Duration Usage

Trunk Concurrent Calls

Register SIP trunk failed

SIP Peer Trunk Status

Register SIP failed

SIP Lost Registration

• For users who have purchased a GDMS package, once the option Alert Events Sync is enabled under RemoteConnect, the triggered events will be pushed to their GDMS platform.

Click on to configure the parameters for each event. See examples below.

1. Fail2ban blocking: If the system Fail2ban is blocking, the event will be recorded in the alert log.

- 2. Flood Attacks: An alert will be generated in case a DDoS attack attempt is detected by the UCM. The event will be registered in the alert log and it will be pushed to the GDMS.
- 3. Network Traffic Storm: An alert will be generated in case there is an excessive amount of packets on the LAN. Network Traffic Storms consume the resources of the network components and saturate the bandwidth, which will bring the whole network to a halt. This event will be registered in events log and a notification will be pushed to the GDMS.

4. User login banned: If user login is blocked, the event will be recorded in the alert log.

5. **Remote Login:** An alert will be generated upon a remote login.

6. System Crash:

Alert Settings: System	Crash	
* Detect Cycle :	10	minute ~

Figure 301: System Events →*Alert Events Lists: System Crash*

• Detect Cycle: The UCM will detect the event at each cycle based on the specified time. Users can enter the number and then select second(s)/minute(s)/hour(s)/day(s) to configure the cycle.

Click on the switch to turn on/off the alert and Email notification for the event. Users could also select the checkbox for each event and then click on button "Alert On", "Alert Off", "Email Notification On", "Email Notification Off" to control the alert and Email notification configuration.

7. **Restore Config:** Once the system configuration is restored, the configuration restoration event will be recorded in the alert log.

8. System Update: Once the system is upgraded, the system upgrade event will be recorded in the alarm log.

9. System Reboot: UCM will detect the system restart and will send an alert for it. There are two kinds of reboots that the UCM detects, normal and abnormal reboots. Normal reboots are the reboots that are done when you press the restart button on the web UI, reboot that occur after updating the firmware, HA backup reboot etc... Abnormal reboots are the reboots that occur due to a system failure. Normal reboots are registered in the alert log and they are not pushed to GDMS, while abnormal reboots are registered in the alert list and are pushed to GDMS.

10. TLS Cert Expiration: Starting 7 days before the HTTP Server TLS certificate in the UCM device expires, an expiration countdown notification is sent every day; the certificate has expired, an expiration notification is sent; after the alarm notification is generated, a valid new certificate is uploaded, and a notification to restore the TLS certificate is generated.

11. HA failure warning: After the HA dual-system hot backup disaster recovery function is enabled in the UCM device, the HA fault alarm is automatically turned on. When the device has a software and hardware related fault, an HA fault alarm is generated.

12. Cloud IM Abnormal: An alert message will be generated f the Cloud IM encounter any issue or exhibit any abnormal behavior.

13. Modify Super Admin Password: Once the super administrator password is modified, the system will record the password modification event in the alarm log.

14. NAS: If the system network disk is abnormal, the event will be recorded in the alarm log.

Alert Settings: Disk Us	age	
* Detect Cycle :	10	minute Y
* Alert Threshold :	80	%

Figure 302: System Events →*Alert Events Lists: Disk Usage*

• Detect Cycle: The UCM630X will perform the internal disk usage detection based on this cycle. Users can enter the number and then select second(s)/minute(s)/hour(s)/day(s) to configure the cycle.

• Alert Threshold: If the detected value exceeds the threshold (in percentage), the UCM630X system will send the alert.

If the threshold is exceeded, any behavior of operating the disk will be rejected, including stopping file upload, IM writing, recording and CDR recording.

16. Memory Usage

Alert Settings: Memory Usage			
Alert Threshold :	80	×	%

Figure 303: System Events →*Alert Events Lists: Memory Usage*

• Alert Threshold: If the detected value exceeds the threshold (in percentage), the UCM630X system will send the alert.

17. External Disk Usage

Alert Settings: Extern	al Disk Usag	je
* Detect Cycle :	10	minute ~
* Alert Threshold :	80	%

Figure 304: System Events→*Alert Events Lists: External Disk Usage*

- **Detect Cycle**: The UCM630X will perform the External disk usage detection based on this cycle. Users can enter the number and then select second(s)/minute(s)/hour(s)/day(s) to configure the cycle.
- Alert Threshold: If the detected value exceeds the threshold (in percentage), the UCM630X system will send the alert.

18. External disk status: If the external disk of the system is Connected/Disconnected, the event will be recorded in the alarm log.

19. **CPU Usage Call Control**: The CPU flow control threshold is defined under **System Settings** \rightarrow **General Settings**, and the default value is 90%. When the traffic exceeds the predetermined value, the event will be recorded in the alert log and new calls will be prohibited.

20. Emergency Calls: If the system generates an emergency call, the event will be recorded in the alert log.

21. Register SIP trunk failed

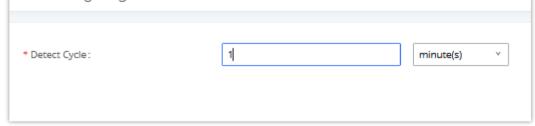


Figure 305: System Events Alert Events Lists: Register SIP Trunk Failed

• **Detect Cycle:** The UCM will detect the failure of SIP trunk registration at a set interval. Users can enter the number and then select second(s)/minute(s)/hour(s)/day(s) to configure the cycle.

22. SIP peer trunk status: If the SIP peer trunks status is abnormal, the event will be recorded in the alert log.

23. SIP Outgoing Call through Trunk Failure: If the system SIP trunk outgoing call fails, the event will be recorded in the alert log.

24. Register SIP failed

Alert Settings: Register SIP failed		
Register SIP Failed Email Send Cycle Time :	0	minute(s)

Figure 306: System Events Alert Events Lists: Register SIP Failed

Configure the sending period of the SIP registration failure alert. The first registration failure alert of the same IP to the same SIP account will be sent immediately, and then no alerts will be sent for similar failure warnings in the cycle time. After the cycle time expires, an alert will be sent again to count the number of occurrences of similar SIP registration failure alerts during the cycle. When set to 0, alerts are always sent immediately.

25. SIP lost registration: If System SIP extension registration is lost, the event will be recorded in the alert log.

26. SIP Internal Call Failure: If the system SIP extension call fails within the office, the event will be recorded in the alert log.

27. **High Frequency Outgoing Call:** When an extension initiates calls frequently, an alert will be logged in the alert log and a notification will be pushed to the GDMS and through email as well.

28. Remote concurrent calls: If the remote concurrent call fails, the event will be recorded in the alert log.

29. Trunk Outbound Call Duration Usage:

30. **Trunk Concurrent calls**: When the system detects that the number of concurrent calls of a certain relay exceeds the threshold set by the relay within a certain period of time, the event will be recorded in the alarm log. Calls are not restricted if the threshold is exceeded.

31. User login success: Successful user login events will be recorded in the alert log.

32. User login failed: User login failure events will be recorded in the alert log.

33. Data Sync Backup: If the system performs data synchronization and backup abnormalities, the event will be recorded in the alert log.

Alert Log

Under Web GUI→Maintenance→System Events→Alert Log, system messages from triggered system events are listed as alert logs. The following screenshot shows system crash alert logs.

System Events					
Alert Log Alert Events List	Alert Contact				
Delete Search Result (s)	ear			Display Filter	
TIME \$	EVENT NAME \$	TYPE \$	CONTENT		
2019-12-11 23:04:56	User login failed	Generate Alert	Logged in system failed! The user 98.175	Logged in system failed! The username is: admin, IP:41.250.1 98.175	

Figure 307: System Events→*Alert Log*

User could also filter alert logs by selecting a certain event category, type of alert log, and/or specifying a certain time period. The matching results will be

displayed after clicking on . Alert logs are classified into two types by the system:

1. Generate Alert: Generated when alert events happen, for example, alert logs for disk usage exceeding the alert threshold.

2. Restore to Normal: Generated when alert events being cleared, for example, logs for disk usage dropping back below the alert threshold.

User could filter out alert logs of "Generate Alert" or "Restore to Normal" by specifying the type according to need. The following figure shows an example of filtering out alert logs of type of "Restore to Normal".

		atesta		•
Start Time :	2020-11-03		00:00	G
End Time :	2020-11-10		14:31	G
Event Name:	All			~
Type:	All			~
			Reset	Filter

Figure 308: Filter for Alert Log

Alert Contact

This feature allows the administrator to be notified when one of the Alert events mentioned above happens. Users could add administrator's Email address under Web GUI \rightarrow Maintenance \rightarrow System Events \rightarrow Alert Contact to send the alert notification to an email (Up to 10 Email addresses can be added) or also specify an HTTP server where to send this alert.

Super Admin	Configure the email addresses to send alert notifications to.
Email	Up to 10 email addresses can be added.
Admin Email	Configure the email addresses to send alert notifications to.
	Up to 10 email addresses can be added.
Email Template	Please refer to section [Email Templates]
Protocol	Protocol used to communicate with the server. HTTP or HTTPS.
110000	Default one is HTTP.
HTTP Server	The IP address or FQDN of the HTTP/HTTPS server.
HTTP Server Port	HTTP/HTTPS port
Warning	Customize the template used for system warnings.
Template	By default: { "action ": "\$ { ACTION } ", "mac ": "\$ { MAC } ", "content ": "\$ { WARNING_MSG } " }

Notification

Template

By default: {"action":"\${ACTION}","cpu":"\${CPU_USED}","memery":"\${MEM_USED}","disk":"\${DISK_USED}","external_disk":"\${E XTERNAL_DISK_USED}"}

Note: The notification message with "action:0" will be sent periodically if Notification Interval is set.

Customize the notification template to receive relevant alert information.

Notification	Modifies the frequency at which notifications are sent in seconds.
Interval	No notifications will be sent if the value is "0". Default value: 20
Template Variables	<pre>\$/MAC) : MAC Address \${WARNING_MSG} : Warning message \${TIME} : Current System Time \${CPU_USED} : CPU Usage \${MEM_USED} : CPU Usage \${MEM_USED} : Memory Usage \${ACTION} : Message Type. Refer to [Table 145: Alert Events] \${DISK_USED} : Disk Usage \${EXTERNAL_DISK_USED} : Disk Usage</pre>

Table 146: Alert Contact

CDR

CDR (Call Detail Record) is a data record generated by the PBX that contains attributes specific to a single instance of phone call handled by the PBX. It has several data fields to provide detailed description for the call, such as phone number of the calling party, phone number of the receiving party, start time, call duration, etc.

On the UCM630X, the CDR can be accessed under Web $GUI \rightarrow CDR \rightarrow CDR$. Users could filter the call report by specifying the date range and criteria, depending on how the users would like to include the logs to the report. Click on "Filter" button to display the generated report.

DR	Hide Filter
art Time : Select date Select time Caller Name :	
allee Number: Account Code:	
burce Trunk Name: Destination Trunk Name:	
Export File Data :	
ctension Group:	
al Type: Inbound Calls Outbound Calls Internal Calls External Calls	
Wtus: Answered No Answer Busy Failed	
Filter Reset	
default, this page displays the CDR entries from the current month. Use the "Filter" butson to specify a time range.	

Figure 309: CDR Filter

0		
0		
<u>ہ</u>		
0		

Filter with the call status, the available statuses are the following:
• Answered
• No Answer
◦ Busy
• Failed
Select source trunk(s) and the CDR of calls going through inbound the trunk(s) will be filtered out.
Select destination trunk(s) and the CDR of calls going outbound through the trunk(s) will be filtered out.
Filter calls using the Action Type, the following actions are available:
• Announce
• Announcement page
• Dial
• Announcements
• Callback
• Call Forward
• Conference
• DISA
• Follow Me
◦ IVR
• Page
• Parked Call
• Queue
• Ring Group
• Transfer
• VM

• VMG

• Video Conference

• VQ_Callback

• Wakeup

• Emergency Call

• Emergency Notify

• SCA

Extension Group	Specify the Extension Group name to filter with.
	Select the fields that will be exported, the following fields are available:
	• Account Code
	• Session
	• Premier caller
	• Action type
	• Source trunk name
	• Destination trunk name
	• Caller number
	• Caller ID
	• Caller name
	• Callee number
	• Answer by
	• Context
Export File Data	• Start time
Data	• Answer time
	• End time
	• Call time
	• Talk time
	• Source channel
	• Dest channel
	• Call status
	• Dest channel extension
	• Last app
	• Last data

• AMAFLAGS

	• UIQUEID
	• Call type
	• NAT
Account Code	Select the account Code to filter with. If pin group CDR is enabled, the call with pin group information will be displayed as part of the CDR under Account Code Field.
Start Time	Specify the start time to filter the CDR report. Click on the calendar icon on the right and the calendar will show for users to select the exact date and time.

End Time	Specify the end time to filter the CDR report. Click on the calendar icon on the right and the calendar will show for users to select the exact date and time.
Caller Number	 Enter the caller number to filter the CDR report. CDR with the matching caller number will be filtered out. User could specify a particular caller number or enter a pattern. '.' matches zero or more characters, only appears in the end. 'X' matches any digit from 0 to 9, case-insensitive, repeatable, only appears in the end. For example: 3XXX: It will filter out CDR that having caller number with leading digit 3 and of 4 digits' length. 3.: It will filter out CDR that having caller number with leading digit 3 and of any length.
Caller Name	Enter the caller name to filter the CDR report. CDR with the matching caller name will be filtered out.
Callee Number	Enter the callee number to filter the CDR report. CDR with the matching callee number will be filtered out. Note: The "Callee Number" filter field supports specifying Pattern (example: 3XXX) or using Leading digits (example: 3.) as filtering options.

Table 147: CDR Filter Criteria

The call report will display as the following figure shows.

	STATUS 🖨	CALL FROM	CALL TO ≑	ACTION TYPE \$		START TI	ME \$	CALL TIM	E 🗘	TALK TIM	E \$	ACCOUNT O ODE \$	RECOR	RDING FILE OP	TIONS ¢
•	Sec. 1	5555	1000	DIAL		2019-12	2-11 09:53:03	0:00:11		0:00:06					-
	STATUS	PREMIER CALLER	CALL FROM	CALL TO	ACTION T	/PE	START TIME		CALL TIME	¢	TALK TIME		ACCOUN T CODE	RECORDING OPTI	
	S	5555	5555	1000	DIAL		2019-12-11 09:53:0	3	0:00:11		0:00:06				

Figure 310: Call Report

The CDR report has the following data fields:

• Start Time

Format: 2019-12-11 09:53:03

• Action Type

Example:

IVR

DIAL

WAKEUP

• Call From

Example format: 5555

• Call To

Example format: 1000

• Call Time

Format: 0:00:11

• Talk Time

Format: 0:00:06

Account Code

Example format:

Grandstream/Test

• Status

Answered, Busy, No answer or Failed.

Users could perform the following operations on the call report.

```
• Sort by "Start Time"
```

Click on the header of the column to sort the report by "Start Time". Clicking on "Start Time" again will reverse the order.

• Download Searched Results

Click on "Download Search Result(s)" to export the records filtered out to a .csv file.

• Download All Records

Click on "Download All Records" to export all the records to a .csv file.

• Delete All

Click on The Delete All button to remove all the call report information.

• Delete Search Result

On the bottom of the page, click on The Delete Search Result (s) button to remove CDR records that

appear on search results.

Note: When deleting CDR, a prompt will now appear asking whether to delete all recording files or not.

• Play/Download/Delete Recording File (per entry)

If the entry has audio recording file for the call, the three icons on the rightest column will be activated for users to select. In the following picture, the second entry has audio recording file for the call.

Click on 🕟 to play the recording file; click on 止 to download the recording file in .wav format; click on 💼 to delete the recording file (the call record entry will not be deleted).

CD	R							Display Filter 🗸 🗸
By de	fault, this pag	e displa Recordi	ng Files			×		
	Delete All		2020-11/auto-1	606313760-1004-1005.wav	ف 🕑 🕑	t(s)	🗘 Automatic Download	CDR Settings
ග	CDR in GDM	1S Clou	-					
	STATUS 🕏	CALL				ME \$	TALK TIME \$ ACCOUNT CODE \$	OPTIONS \$
×.	\$	"100					0:00:05	2 1
Þ	5	"Mia				UTO UTE C	0:00:28	
Þ	5	"Multi-confe	6302	CONFERENCE[6302]	2020-11-24 16:38:24	0:02:11	0:02:10	
Þ	5	4444	1000	DIAL	2020-11-20 17:04:51	0:00:18	0:00:00	
÷	e	4444	9987653 [Tr	DIAL	2020-11-20 17:03:41	0:00:06	0:00:00	
	**			<u> </u>	2 >		Total: 11 10 / p	age Y Goto 1

Figure 311: Call Report Entry with Audio Recording File

• Automatic Download CDR Records

User could configure the UCM630X to automatically download the CDR records and send the records to multiple Email recipients in a specific hour. Click on "Automatic Download Settings" and configure the parameters in the dialog below.

Automatic Down	oad X
	he new CDR records to the configured Email at a certain period. If you DR records to an FTP/TFTP server, please go to the Data Sync page to
Automatic Download : Delete Sent	
Records: Automatic Download Period :	By Day Ý 0 Ý
Email:	GStes@gmail.com Email Template
	Cancel

Figure 312: Automatic Download Settings

To receive CDR record automatically from Email, check "Enable" and select a time period "By Day" "By Week" or "By Month", select Hour of the day as

well for the automatic download period. Make sure you have entered an Email or multiple email addresses where to receive the CDR records.

users have the option to delete the sent records "Delete Sent Records"

Starting from UCM630X firmware 1.0.10.x, transferred call will no longer be displayed as a separate call entry in CDR. It will display within call record in the same entry. CDR new features can be found under Web $GUI \rightarrow CDR \rightarrow CDR$. The user can click on the option icon for a specific call log entry to view details about this entry, such as premier caller and transferred call information.

	STATUS \$	CALL FROM	CALL TO ≑	ACTION TYPE		START TI	ME 🗘	CALL TI	ME 🗘 🚽	TALK TIME 单	ACCOUNT C ODE \$	RECOR	DING FILE OP	PTIONS \$
•	с. С	5555	1000	DIAL		2019-12	2-11 09:53:03	0:00:11	I (0:00:06				-
					Figur	re 313:	CDR Report							
-	C	"ablili lolo" 1000	9985632	DIAL		2019-12-	10 03:23:14	0:00:13	0:0	00:07			gr	9 1
	STATUS	PREMIER CALLER	CALL FROM	CALL TO	ACTION TYP	E	START TIME		CALL TIME 🗘	TALKTIME	ACCO T COE		CORDING FIL	
	۲.	1000	"ablili lolo" 1000	9985632	DIAL		2019-12-10 03:23:14		0:00:00	0:00:00				-
	Sec. 1	1000	"ablili lolo" 1000	6500	QUEUE[65	00]	2019-12-10 03:23:14		0:00:00	0:00:00			an	1
	$ \mathbf{v}_{i} _{2}$	1000	"ablili lolo" 1000	5555	QUEUE[65	00]	2019-12-10 03:23:14		0:00:13	0:00:07				-

Figure 314: Detailed CDR Information

Downloaded CDR File

The downloaded CDR (.csv file) has different format from the Web GUI CDR. Here are some descriptions.

• Caller number, Callee number

"Caller number": the caller ID.

"Callee number": the callee ID.

If the "Source Channel" contains "DAHDI", this means the call is from FXO/PSTN line.

caller number	callee number	context	calerid	source channel	dest channel	lastapp
	2009	from-internal	"Wake Up Call" <wakeup></wakeup>	Local/2009@from-internal-00000001;2	PJSIP/2009-00000013	Dial
2007	31100	from-internal	"" <2007>	PJSIP/2007-00000014	DAHDI/1-1	Dial
2009	1100	from-internal	"John Doe" <2009>	PJSIP/2009-00000015	PJSIP/trunk_1-00000016	Dial
1100	2014	from-did-direct	"1100" <1100>	DAHDI/1-1	PJSIP/2014-00000017	Dial

Figure 315: Downloaded CDR File Sample

• Context

There are different context values that might show up in the downloaded CDR file. The actual value can vary case by case. Here are some sample values and their descriptions.

from-internal: internal extension makes outbound calls.

ext-did-XXXXX: inbound calls. It starts with "ext-did", and "XXXXX" content varies case by case, which also relate to the order when the trunk is created.

ext-local: internal calls between local extensions.

• Source Channel, Dest Channel

Sample 1:

caller number	callee number	context	calerid	source channel	dest channel	disposition
2007	31100	from-internal	"" <2007>	PJSIP/2007-00000014	DAHDI/1-1	ANSWERED

Figure 316: Downloaded CDR File Sample – Source Channel and Dest Channel 1

DAHDI means it is an analog call, FXO or FXS.

For UCM6302, DAHDI/(1-2) are FXO ports, and DAHDI(3-4) are FXS ports.

For UCM6304, DAHDI/(1-4) are FXO ports, and DAHDI(5-6) are FXS ports.

Sample 2:

caller number	callee number	context	calerid	source channel	dest channel	lastapp
2009	1100	from-internal	"John Doe" <2009>	PJSIP/2009-00000015	PJSIP/trunk_1-00000016	Dial

Figure 317: Downloaded CDR File Sample – Source Channel and Dest Channel 2

"SIP" means it is a SIP call. There are three format:

(a) **PJSIP/NUM-XXXXXX**, where NUM is the local SIP extension number. The last XXXXX is a random string and can be ignored.

(c) **PJSIP/trunk_X/NUM**, where trunk_X is the internal trunk name, and NUM is the number to dial out through the trunk.

(c) **PJSIP/trunk_X-XXXXXX**, where trunk_X is the internal trunk name and it is an inbound call from this trunk. The last XXXXX is a random string and can be ignored.

There are some other values, but these values are the application name which are used by the dialplan.

IAX2/NUM-XXXXXXXX: it means this is an IAX call.

Local/@from-internal-XXXXX: it is used internally to do some special feature procedure. We can simply ignore it.

Hangup: the call is hung up from the dialplan. This indicates there are some errors or it has run into abnormal cases.

Playback: play some prompts to you, such as 183 response or run into an IVR.

ReadExten: collect numbers from user. It may occur when you input PIN codes or run into DISA

Note: The language of column titles in exported CDR reports and statistics reports will be based on the UCM's display language

CDR Export Customization

Users can select the data they want to see in exported CDR reports by first clicking on the *Filter* button on the CDR page under $CDR \rightarrow CDR$ and selecting the desired information in the *Export File Data* field.

	End Time:		Select date		
	Caller Name :	(
	Account Code :				
	Destination Trunk	Name:			
	Export File Data :	([
			ACCOUNT CODE		*
)utbound Call	s 📃 Internal Ca	lls	SESSION		
lo Answer	Busy		ACTION OWNER		
			ACTION TYPE		
	~		SOURCE TRUNK N	IAME	
. Use the "Filte	er" button to specify a time	ange.	DEST TRUNK NAM	1E	
All Records	🛓 Download Search Re	sult (s)	CALLER NUMBER		
ype \$	Start Time 🖨 🛛 Ca	II Time 🗘	CALLERID Talk Tim	Account Co	Recording File

Figure 318: CDR Export File data

CDR in GDMS Cloud

Cloud Storage for CDR Record which can be displayed under CDR \rightarrow CDR in GDMS Cloud.

CDR in GDMS Cloud			Cancel
Delete			
NAME	DATE	SIZE	OPTIONS
		No Data	



Statistics

UCM supports the function of concurrent call statistics. This function provides users with statistics on the number of concurrent calls of all VOIP trunks (SIP trunks and IAX trunks). Users can set search criteria to generate custom charts. Select the trunk and time to view the chart of the maximum number of concurrent calls corresponding to the trunk in a certain day or month.

stics	
on Type:	All O SIP Calls O PSTN Calls O IAX Calls
e:	 By Month By Week By Day By Hour By Range 2019 ×
R Statistics	👄 All Calls 🛸 Inbound Calls 🛑 Outbound Calls 🛑 Internal Calls 💭 External Ca
10	
8	/
6 -	
4-	
2-	

Figure 320: CDR Statistics

	Select one of the following trunk type.
Trunk Type	∘ All
	• SIP Calls
	• PSTN Calls
	Select one or more in the following checkboxes.
	• Inbound calls
	 Outbound calls
Call Type	• Internal calls
	• External calls
	• All calls
	• By month (of the selected year).

Time Range

• By week (of the selected year).

• By day (of the specified month for the year).

• By hour (of the specified date).

• By range. For example, 2016-01 To 2016-03.

Table 148: CDR Statistics Filter Criteria

Recording Files

This page lists all the recording files recorded by "Auto Record" per extension/ring group/call queue/trunk, or via feature code "Audio Mix Record". If external storage device is plugged in, for example, SD card or USB drive, the files are stored on the external storage. Otherwise, internal storage will be used on the UCM630X.

Figure 321: CDR→Recording Files

- Click on "Download" to batch-download the selected recording files.
- Click on "Download All" to download all the recording files.
- Click on "Delete" to batch-delete the selected recording files.
- Click on "Clear" to delete all the recording files.
- Click on "Scan" to retrieve the file information and display all the recording files on external storage. The UCM automatically retrieves the info of the first 5000 files from external storage already. This button can be used when the number of files stored on the external storage exceeds 5000 files and it requires manual file scanning.
- Select either "USB Disk" or "Local" to show recording files stored on external or internal storage, depending on selected storage space.
- Select whether to show call recordings, queue recordings or conference recordings.
- Click on to download the recording file in .wav format.
- Click on to delete the recording file.

• To sort the recording file, click on the title "Caller", "Callee" or "Call Time" for the corresponding column. Click on the title again can switch the sorting

mode between ascending order or descending order.

USER PORTAL

Users could log into their web GUI portal using the extension number and user password. When an extension is created in the UCM630X, the corresponding

user account for the extension is automatically created. The user portal allows access to a variety of features which include user information, extension

configuration and CDR as well as settings and managing Other features like Call Queue, Wakeup Service and CRM.

Users also can access their personal data files (call recordings, Voicemail Prompts ...).

The login credentials are configured by Super Admin. The following figure shows the dialog of editing the account information by Super Admin. The Username must be the extension number and it is not configurable, and the password is set on "User Password" field and it should not be confused with the SIP extension password.

Edit User Information: 1000					
* User Name :	1000	* User Password :	mYpassWord!		
Privilege :	Consumer v	Department :	Support		
Fax:		Email Address:	user1000@domain.local		
First Name :	John	Last Name :	DOE		
Home Number:		Mobile Phone Numb			

Figure 322: Edit User Information by Super Admin

The following screenshot shows an example of login page using extension number 1000 as the username.



Figure 323: User Portal Login

After login, the Web GUI display is shown as below.

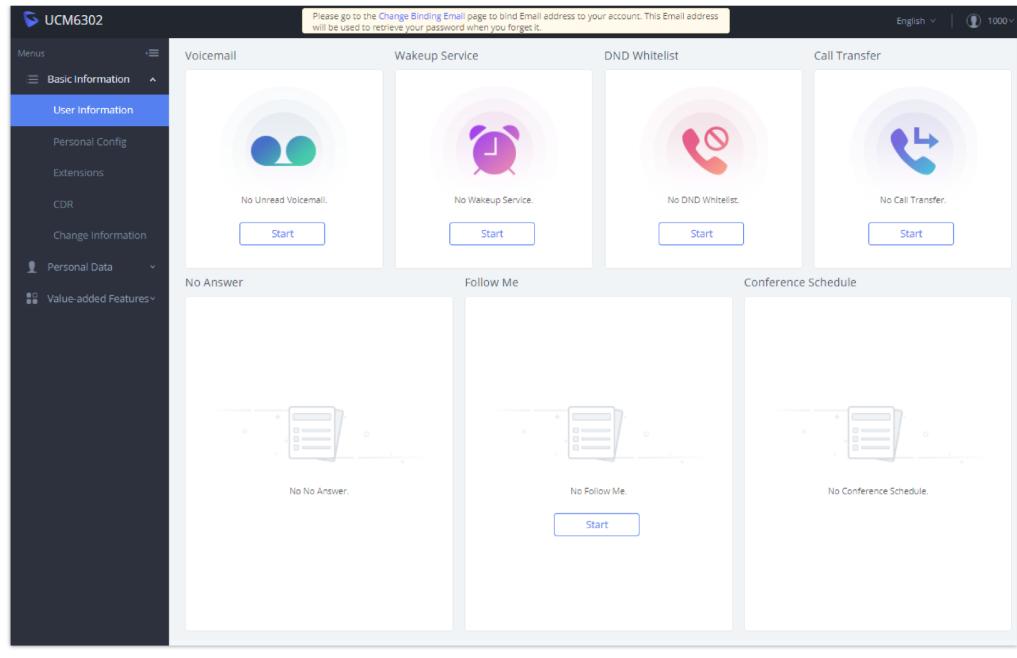


Figure 324: User Portal Layout

After successful login, the user has the following three configuration tabs:

Basic Information

Under this menu, the user can configure and change his/her personal information including (first name, last name, password, email address, department...). And they can also set and activate their extension features (presence status, call forward, DND) to be reflected on the UCM.

Also, the user can see from this menu the Call Details Records and search for specific ones along with the possibility to download the records on CSV format for later usage.

Personal Data

Under this section, the user can access and manage their personal data files which includes (voicemail files, call recordings ...) along with the possibility to set Follow me feature to without requesting the Super admin to set the feature from admin account.

Other Features

On this section, the user has access to manage and use all rich features which includes.

+ If user is a member of call queue, they can check the queue's activity from the "Call Queue" section.

+ Create and enable Wake Up service.

+ Enable and configure CRM connection to either SugarCRM or Salesforce.

For the configuration parameter information in each page, please refer to *[Table 149: User Management \rightarrow Create New User]* for options in User **Portal** \rightarrow **Basic Information** \rightarrow **User Information** page; please refer to *[EXTENSIONS]* for options in User Portal \rightarrow **Basic Information** \rightarrow **Extension** page; please refer to *[CDR]* for User Portal \rightarrow **Basic Information** \rightarrow **CDR** page.

MAINTENANCE

User Management

User management is on Web GUI \rightarrow Maintenance \rightarrow User Management page. User could create multiple accounts for different administrators to log in the UCM630X Web GUI. Additionally, the system will automatically create user accounts along with creating new extensions for extension users to log in the Web GUI using their extension number and password. All existing user accounts for Web GUI log will be displayed on User Management page as shown in the following figure.

User Management			
User Information Cus	stom Privilege		
+ Add			
USERNAME \$	PRIVILEGE \$	LAST OPERATION TIME	OPTIONS
admin	Super Administrator	2021-11-05 13:02:11	2 0
	< <u>1</u> >		10 / page ~

Figure 325: User Management Page Display

User Information

When logged in as Super Admin, click on "Add" to create a new account for Web GUI user. The following dialog will prompt. Configure the parameters as shown in below table.

Create New User			Cancel Save	e
* Username :	Privilege:	Administrator	v	
* User Password :	Multi-Factor	Email Settings		
	Authentication:			
Email Address:				

Figure 326: Create New User

Username Configure a username to identify the user which will be required in Web GUI login. Letters, digits, and underscore are allowed in the username.

User Password	Configure a password for this user which will be required in Web GUI login. English input is allowed without space,' and ".
Privilege	This is the role of the Web GUI user. When super admin creates new user, "Adminstrator" or customized privilege can be selected.
Multi-Factor Authentication	If this authentication is enabled, the user account needs to be verified with an MFA code every time it logs in to enhance the security of the product.
Email Address	Configure the email address for the user. This is optional.

When the super admin creates new user, the email address for the new user is optional. However, when the admin user created by super admin logs in to edit user information, email address is mandatory. This email address is the same and will be sync up with the email address configured in login settings.

Once created, the Super Admin can edit the users by clicking on or delete the user by clicking on

User Management					
User Information Custom Privilege					
+ Add					
USER NAME \$	PRIVILEGE \$	LAST OPERATION TIME	OPTIONS		
admin12345	Super Administrator	2019-12-11 23:45:51	2 🗇		
John	Administrator		C 💼		

Figure 327: User Management – New Users

Multi-Factor Authentication

To enhance the security for UCM, super admin and admin can select to use multi-factor authentication method for login to protect the login information. Virtual MFA and hardware MFA are supported and can be selected. Once enabled, the user must use MFA code to verify before login.

Note:

- The user cannot enable or disable MFA for another different user.
- Super admin can edit user settings for admin but cannot edit Multi-Factor Authentication option. MFA option is only viewable for super admin when super admin edits other users.
- When the user sees MFA enabled, only this user can disable or enable it again.
- Email address and email settings are required before enabling Multi-Factor Authentication. Please ensure email setting has "Client" type configured.
 Otherwise, MFA cannot be enabled.

Please refer to MFA how to guide here for more information.

	Choose authentication method X	
* Username :	For more information about multi-factor security certification, see Instructions for use	Super Administrator v
User Password :	Cr Virtual MFA device certification Install the app on your phone 	
* Email Address :	i Hardware MFA device certification All devices that support the development of TOTP standards	



Figure 328: MFA Settings

Custom Privilege

Four privilege levels are supported:

• Super Administrator

- This is the highest privilege. Super Admin can access all pages on UCM630X Web GUI, change configuration for all options and execute all the operations.
- Super Admin can create, edit, and delete one or more users with "Admin" privilege
- Super Admin can edit and delete one or more users with "Consumer" privilege
- Super Admin can view operation logs generated by all users.
- By default, the user account "admin" is configured with "Super Admin" privilege and it is the only user with "Super Admin" privilege. The Username and Privilege level cannot be changed or deleted.
- ∘ Super Admin could change its own login password on Web GUI→Maintenance→Login Settings page.
- Super Admin could view operations done by all the users in Web GUI→Maintenance→User Management→Operation Log
- Administrator
- Users with "Admin" privilege can only be created by "Super Admin" user.
- "Admin" privilege users are not allowed to access the following pages:

Maintenance→Upgrade

Maintenance→**Cleaner**

Maintenance→Reset/Reboot

Settings→User Management→Operation Log

• "Admin" privilege users cannot create new users for login.

Note: By default, administrator accounts are not allowed to access backup menu, but this can be assigned to them by editing the option "Maintenance \rightarrow User Management \rightarrow Custom Privilege" then press to edit the "Admin" account and include backup operation permission for these types of users.

* Privilege Name:	Admin)	
Custom Privilege:	1 item Available Search Q Backup	<	0 item Search None	Selected

Figure 329: Assign Backup permission to "Admin" users

• Consumer

- A user account for Web GUI login is created automatically by the system when a new extension is created.
- The user could log in the Web GUI with the extension number and password to access user information, extension configuration, CDR of that extension, personal data, and Other Features. For more details; please refer to https://documentation.grandstream.com/knowledge-base/user-portal/.
- The SuperAdmin user can click on on the "General_User" in order to enable/disable the custom privilege from deleting their own recording files, changing SIP credentials, and disabling voicemail service in their user portal account.

Edit Custom Privilege: General_User

* Privilege Name:	General_User	
Enable Delete Recording Files:	9	
Allowed to change Auth and SIP password:		
Allow to Enable Voicema	ail: 🔲	

Figure 330: General User

• Custom Privilege

The Super Admin user can create users with different privileges. 33 items are available for privilege customization.

- API Configuration
- Backup
- Callback
- Call Queue
- Queue Statistics
- Queue Recordings
- CDR Recording Files
- CDR Records
- CDR Statistics
- Dial By Name
- DISA
- Emergency Calls
- Event List
- Extensions
- Outbound Routes
- Inbound Routes
- Fax/T.38

• Feature Codes

• IVR

• Paging/Intercom

• Parking Lot

• Pickup Groups

• PMS – Wakeup Service

• Ring Groups

• SCA

- Speed Dial
- System Status
- System Events
- LDAP Server
- Time Settings
- Meeting
- Voicemail
- Voice Prompt
- Wakeup Service
- Zero Config
- Announcement.
- UCM RemoteConnect

Log in UCM630X as super admin and go to Maintenance -> User Management -> Custom Privilege, create privilege with customized available modules.

When you add CDR Records and CDR Recording Files custom privileges, additional privileges will appear (All Deletion of CDR and Allow Deletion of DCR Recordings, respectively). This offers more flexibility on the privileges that the admin assigns to the user.

Create New Custom Pri	vilege		
* Privilege Name:			
Allow Deletion of CDR: Allow Deletion of CDR Recordings			
* Custom Privilege :	 37 items Avaitable Search Queue Staustics Queue Recordings CDR Statistics Dial By Name DISA Emergency Calls 	lable Q A >	 2 items Selected Search Q CDR Records CDR Recording Files

Figure 331: Create New Custom Privilege

To assign custom privilege to a sub-admin, navigate to UCM Web GUI \rightarrow Maintenance \rightarrow User Management \rightarrow User Information \rightarrow Create New User/Edit

Users, select the custom privilege from "Privilege" option.

Concurrent Multi-User Login

When there are multiple Web GUI users created, concurrent multi-user login is supported on the UCM630X. Multiple users could edit options and have

configurations take effect simultaneously. However, if different users are editing the same option or making the same operation (by clicking on "Apply

Changes"), a prompt will pop up as shown in the following figure.

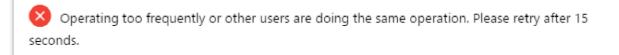


Figure 332: Multiple User Operation Error Prompt

User Portal/Wave Privilege

The user can create customize privileges related to an extension's User Portal and Wave. The created privilege can be affected to the extensions to limit or allow them to use certain functionalities related to Wave and the User Portal.

Create New User Portal/Wave Privileges	Cancel Save
Privilege Name: Wave Permissions	
🔽 Chat 🕖	
🗹 🍁 End-to-End Encrypted Chat 💿	
Video Call 💿	
 Meeting Ø Start Video During Meeting Ø 	
Online Status 🔞	
Application ⊘	
Smart Devices Toggling off privileges will hide the corresponding pages and options in Wave.	
App Store 💿	
User Portal/Wave Privileges 🍘	
Account Settings 🕖	
Extension Settings	
Delete Recordings	
Personal Data Toggling off privileges will hide the corresponding pages and options in the User Portal and Wave.	
• Other Features Toggling off privileges will hide the corresponding pages and options in the User Portal and Wave.	
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User Endpoint Access History

The User Endpoint Access History tab allows the administrator to view the access history of all extensions, the time on which the access has occurred, the IP addresses from which the extensions were accessed, and whether they were accessed from the User Portal, Wave Web/Desktop, or mobile. Extension access

from the SIP endpoints won't be logged in this page.

er Information	Custom Privilege	User Portal/Wave Privile	ges User Endpoint	Access History	
EXTENSIONS \$	NAME \$	EXTENSION TYPE \$	TERMINAL TYPE	LAST OPERATION TIME	IP ADDRESS
1000		SIP(WebRTC)	Android/iOS	2022-11-14 18:15:35	192.168.5.137
			Wave Web/Desktop	2022-11-11 10:18:22	192.168.5.119
1001	Arthur Morgan	SIP(WebRTC)	Android/iOS	2022-11-14 16:10:37	192.168.5.76
			User portal	2022-08-10 09:26:40	192.168.5.111
			Wave Web/Desktop	2022-11-11 10:18:22	192.168.5.93
1002	Bonnie MacFarlan	SIP(WebRTC)	Android/iOS	2022-11-14 16:53:03	192.168.5.79
			User portal	2022-08-23 15:49:30	192.168.5.111
			Wave Web/Desktop	2022-10-18 14:14:12	192.168.5.111
1003	Catherine Braitwaite	SIP(WebRTC)	Android/iOS	2022-11-14 20:34:59	192.168.5.76
			User portal	2022-11-17 09:19:44	192.168.5.168
1004	John Marston	SIP(WebRTC)	Wave Web/Desktop	2022-08-16 15:32:37	192.168.5.111
1004	John Marscon	SIP(WEDKTC)	Android/iOS	2022-11-16 11:26:44	192.168.5.91
1005	Abigail Roberts	SIP(WebRTC)	Wave Web/Desktop	2022-11-16 17:42:47	10.000
1005	Abigan Roberts	Sil (Webkite)	Android/iOS	2022-11-16 18:11:34	192.168.5.79
1006	Mary-Beth Gaskill	SIP(WebRTC)	Wave Web/Desktop	2022-11-16 16:21:14	192.168.5.165
1000	Mary-Detri Gaskili	SIF(WEDRIC)	Android/iOS	2022-11-16 17:37:50	192.168.5.79
1007	Hosea Matthews	SIP(WebRTC)	Wave Web/Desktop	2022-11-16 17:50:35	192.168.5.63
				< <u>1</u> > Total: 8	10 / page ~ Goto 1

Login Settings

Change Password / Email

Change Password

After logging in the UCM630X Web GUI for the first time, it is highly recommended for users to change the default password to a more complicated password for security purpose. Follow the steps below to change the Web GUI access password.

- 1. Go to Web GUI→Maintenance→Login Settings→Change Password / Email page.
- 2. Enter the old password first.
- 3. Enter the new password and re-type the new password to confirm. The new password has to be at least 4 characters. The maximum length of the password is 30 characters.

4. Configure the Email Address that is used when login credential is lost.

5. Click on "Save" and the user will be automatically logged out.

6. Once the web page comes back to the login page again, enter the username "admin" and the new password to login.

Login Settings		
Change Password / Email	ogin Security	
* Enter Old Password :		
Change Password		
Change Password:		
* Enter New Password :		
* Re-enter New Password :	•••••	
Change Username		
Change Username:		
Change Binding Email		
* Email Address :	814088094@qq.com	Email Template

Figure 343: Change Password

Enter Old Password	Enter the Old Password for UCM630X
Change Password	Enable Change Password
Enter New Password	Enter the New Password for UCM630X
Re-enter New Password	Retype the New Password for UCM630X
Change Username	Enable Change Username
Please enter the username	Enter the Username
Email Address	The Email address is the User Email Address. It is used for receiving password information if the user forgets his password.

Change Username

UCM630X allows users now to change Super Administrator username.

Change Username:		
* Please enter the username :	GSadmin	

Figure 344: Change Username

Change Email Address

UCM630X allows user to configure binding email in case login password is lost. UCM630X login credential will be sent to the designated email address. The

feature can be found under Web GUI→ Maintenance→Login Settings→Change Password / Email

* Email Address: 814088094@qq.com Email Template

Email Address	Email Address is used to retrieve password when password is lost

Table 152: Change Binding Email option

Login Security

After the user logs in the UCM630X Web GUI, the user will be automatically logged out after certain timeout, or he/she can be banned for a specific period if the login timeout is exceeded. Those values can be specified under UCM630X web GUI \rightarrow Maintenance \rightarrow Login Settings \rightarrow Login Security page.

The "User Login Timeout" value is in minute and the default setting is 10 minutes. If the user does not make any operation on Web GUI within the timeout, the user will be logged out automatically. After that, the Web GUI will be redirected to the login page and the user will need to enter username and password to log in.

If set to 0, there is no timeout for the Web GUI login session and the user will not be automatically logged out.

"**Maximum number of login attempts**" can prevent the UCM630X from brutal force decryption, if this number is exceeded user IP address will be banned from accessing the UCM for a period of time based on user configuration, the default value is 5.

"User ban period" specify the period of time in minutes an IP will be banned from accessing the UCM if the User max number of try login is exceeded, the default value is 5.

"Login Banned User List" show the list of IPs' banned from the UCM.

"Login Whitelist" User can add a list of IPs' to avoid the above restriction, thus, they can exceed the User max number of try login.

Login Settings				
Change Password / Email	ogin Security			Cancel Save
* User Login Timeout :	10			
* Maximum number of login	5			
attempts:				
* User ban period :	5			
Login Banned User List				Q Please enter ip address
IP ADDRESS \$	USER NAME ≑		BANNED TIME \$	OPTIONS
		No Data		
Login Whitelist				
The IP addresses in the Login Whitelist wi	Il not be restricted. This option doesn't support network segment format.	et.		
+ Add				
IP ADDRESS \$		OPTIONS		
		No Data		
L				

Figure 346: Login Timeout Settings

Remote Login

This feature allows the user to manage trusted login locations, also, verifying where login sessions were initiated from, this is very important since, in this

type of scenario, the UCM6300 would be directly connected to the Internet, and the public IP address would be used for the remote login. This feature adds a

layer of visibility and control, thus enhacing the security of the UCM.

In this tab there are two types of lists of locations:

- Trusted Login Locations: These are the trusted login locations that are added manually by the admin. Any added trusted login location will not generate any remote login alert upon the first time login.
- Other Login Location: This list will show all the remote login locations that are not trusted, logging in for the first time from an untrusted login location will generate an alert, but the subsequent remote logins from the same location will not generate alerts.

Figure : Remote Login

To add a trusted login location, the user must click on

Then add the public IP address of the location, click on "Check Location" to verify if it's the correct location then click "OK".

0 Note

The system administrator can add up to 5 Trusted Login Locations, while Other Login Locations can have an unlimited number of entries.

Operation Log

Super Admin has the authority to view operation logs on UCM630X Web GUI->Settings->User Management->Operation Log page. Operation logs list

operations done by all the Web GUI users, for example, Web GUI login, creating trunk, creating outbound rule etc. There are 7 columns to record the

operation details "Date", "Username", "IP Address", "Results", "Page Operation", "Specific Operation" and "Remark".

Figure 347: Operation Logs

The operation log can be sorted and filtered for easy access. Click on or at the top of each column to sort. For example, clicking on for "Date" will sort the logs according to newer operation date and time. Clicking on for "Date" will reverse the order.

Date	The date and time when the operation is executed.
Username	The username of the user who peformed the opertation
IP Address	The IP address and geographical location from which the operation has been made.
Results	The result of the operation.
Page Operation	The page where the operation is made. For example, login, logout, delete user, create trunk and etc.
Specific Operation	Click on the hyperlinked operation detail to reveal more details.
Remark	Allows users to add notes and remarks to each operation.

User could also filter the operation logs by time condition, IP address and/or username. Configure these conditions and then click on "Display Filter".

Start Time :	2019-12-10	00:00	0			
End Time:	2019-12-11	00:00	0			
IPv4/IPv6 Address :						
User Name :	admin		~			
	Filter					
Delete Search Res	ult (s) 🗄 Clear	Download Search I	Result (s) 🛛 🛃 Down	nload Ali Log		
DATE \$	USER NAME \$	IP ADDRESS 💠	RESULTS \$	PAGE OPERATION \$	SPECIFIC OPERATION \$	REMARK ‡
				No Data		

Figure 348: Operation Logs Filter

The above figure shows an example that operations made by user "support" on device with IP 192.168.40.173 from 2014-11-01 00:00 to 2014-11-06 15:38 are filtered out and displayed.

To delete operation logs, users can perform filtering first and then click onclick onto delete all operation logs at once.

to delete the filtered result of operation logs. Or users can

Upgrading

The UCM630X can be upgraded to a new firmware version locally. And in order to do that, please follow the below steps:

1. Download the latest UCM630X firmware file from the following link and save it in your PC.

http://www.grandstream.com/support/firmware

- 2. Log in the Web GUI as administrator in the PC.
- 3. Go to Web GUI → Maintenance → Upgrade, upload the firmware file by clicking on "choose file to upload" and select the firmware file from your PC.

The default firmware file name is UCM630Xfw.bin

	Firmware File Path:	Choose File to Upload	
		Figure 349: Local Upgrade	
Upgrade Firmware			Cancel Save
Upgrade Via:	MTTP	-O	

Figure 350: Upgrading Firmware Files

4. Wait until the upgrading process is successful and a window will be popped up in the Web GUI.

fw.ipvideotalk.com/gs

Upgrade Firmware			Cancel Save
Upgrade Via : Firmware Server Path :	HTTP fw.ipvideosalik.com/gs	Conversion is upgraded surrowshifty! Do you want to wellart the device new to apply the charges? Cancel Conversion	

Figure 351: Reboot UCM630X

5. Click on "OK" to reboot the UCM630X and check the firmware version after it boots up.

- 0
- Please do not interrupt or power cycle the UCM630X during upgrading process.
- The firmware file name allows the use of the special characters besides the following restricted characters: # \$ ^ & * + () [] /; ` | , <> ?

No Local Firmware Servers

Service providers should maintain their own firmware upgrade servers. For users who do not have TFTP/HTTP/HTTPS server, some free windows version

TFTP servers are available for download from

http://www.solarwinds.com/products/freetools/free_tftp_server.aspx

http://tftpd32.jounin.net

Please check our website at http://www.grandstream.com/support/firmware for latest firmware.

Instructions for local firmware upgrade via TFTP:

- 1. Unzip the firmware files and put all of them in the root directory of the TFTP server;
- 2. Connect the PC running the TFTP server and the UCM630X to the same LAN segment;
- 3. Launch the TFTP server and go to the File menu \rightarrow Configure \rightarrow Security to change the TFTP server's default setting from "Receive Only" to "Transmit Only" for the firmware upgrade;
- 4. Start the TFTP server and configure the TFTP server in the UCM630X web configuration interface;
- 5. Configure the Firmware Server Path to the IP address of the PC;
- 6. Update the changes and reboot the UCM630X.

End users can also choose to download a free HTTP server from http://httpd.apache.org/ or use Microsoft IIS web server. Backup

The UCM630X configuration can be backed up locally or via network. The backup file will be used to restore the configuration on UCM630X when necessary.

Backup/Restore

Users could backup the UCM630X configurations for restore purpose under Web GUI \rightarrow Maintenance \rightarrow Backup \rightarrow Backup/Restore.

Click on "Backup" to create a new backup file. Then the following dialog will show.

Create New Backup	Cancel Backup
NTFS is the recommended file	system for external storage devices.
* Choose Storage Location :	GDMS Cloud Storage v
* File Name:	backup_2021129_134615
Choose Backup Files :	All Config File CDR Records Recording Files
	📃 Fax Files 📃 Voicemail 🗹 Voice Prompt Files
	📃 Queue Statistics Report 🛛 🗹 ZeroConfig Storage
	Conference Report IM Data
	ome time if backing up large amounts of data. It is recommended to use external storage devices such as SD cards, USB flash drives, etc. Select the "Voicemail" will nnouncements. Select the "ZeroConfig Storage" will not back up phone firmwares.

Figure 352: Create New Backup

- 1. Choose the type(s) of files to be included in the backup.
- 2. Choose where to store the backup file: USB Disk, SD Card, Local, NAS or GDMS.

3. Name the backup file.

4. Click on "Backup" to start backup.

Once the backup is done, the list of the backups will be displayed with date and time in the web page. Users can download 🔬, restore 🗿, or delete 👼 it from the UCM630X internal storage or the external device.

Click on to upload backup file from the local device to UCM630X. The uploaded backup file will also be displayed in the web page and can be used to restore the UCM630X.

Please make sure the FXO port settings, total number of extensions and total number of conference rooms are compactable before restoring to another UCM model. Otherwise it will prompt a warning and stop the restore process as shown below:

8 Networ	ik model from backup file isn't compatible. Restore forbidden.	Q Apply Changes	Setup Wizard English v 🕦 admin12345 v
Backup			
Backup/Restore Data Sync			
Backup file must be in tar format and contain letters, digits or special	characters File size must be less than 10MB.		
📰 Backup 🛛 📰 Schedule Backup 🥼 Upload			
List of Previous Configuration Backups			
Delete			
NAME \$	DATE \$	SIZE \$	OPTIONS
backup_20191211_170739.tar	2019-12-12 00:14:37 UTC+08:00	7.28 MB	土 巧 🛅
	< 1 >		Total: 1 10 / page > Goto 1
	Figure 353: Restore V	Varning	
Backup			
Backup/Restore Data Sync			
Backup file must be in .tar format and less than 30MB i	in size. Filename supports alphanumber characters	a dashes (.) and underscores (.)	
	maize. Prenome supports approntation of enoracters	, dashes (-), and underscores (-).	
📰 Backup 🛛 🚼 Schedule Backup 🖈	. Upload		
Local Backups			
Delete			
NAME \$	DATE \$	SIZE 🗢	OPTIONS
	No Data		
Backups in GDMS Cloud Storage			
🔟 Delete			
NAME	DATE	SIZE	OPTIONS
backup_2020717_124754.tar	2020-07-17 12:49:04	14.61MB	土 49 🛅
	< <u>1</u> >	т	Total: 1 10 / page ~ Goto 1

Figure 354: Backup / Restore

card / SFTP server. User is allowed to set backup time from 0-23 and how frequent the backup will be performed.

Schedule Backup	
NTFS is the recommended file s	ystem for external storage devices.
Enable Scheduled Backup :	
Choose Storage Location :	SFTP Server v
* Account:	
Password :	P _{PC} 4
* Server Address :	
Destination Directory:	
* Backup Time:	00:00 ~
* Backup Frequency:	1 ~
Choose Backup Files :	 All Config File CDR Records Recording Files Voicemail Voice Prompt Files Queue Statistics Report ZeroConfig Storage Conference Report
+ Test Connection	

Figure 355: Local Backup

Data Sync

Besides local backup, users could backup the voice records/voice mails/CDR in a daily basis to a remote server via SFTP protocol automatically under Web $GUI \rightarrow Maintenance \rightarrow Backup \rightarrow Data Sync.$

The client account supports special characters such as @ or "." Allowing the use email address as SFTP accounts. It allows users as well to specify the destination directory on SFTP server for backup file. If the directory does not exist on the destination, UCM630X will create the directory automatically

Backup				
Backup/Restore	Data Sync			
Use SFTP to automati	cally sync CDR, re	cordings, voicemail, CDR, and fax ev	ery day.	
Data Sync Configu	ration			
Enable Data Sync:		2		
Choose Data Sync	Files:	CDR Records	Recording Files	
		Voice Mail	Fax	
* Account :		test@domain.lacal]
Password:			2 ₇₇ 4]
* Server Address :		192.168.5.121]
Destination Directo	ory:]
* Sync Time:		05:00	v]
+ Test Connectio	on 🛛 🕂 Syno	chronize All Data		
Data Sync Log				
🗄 Clean				
No record to viev	v			

Enable Data Sync	Enable the auto data sync function. The default setting is "No".
Account	Enter the Account name on the SFTP backup server.
Password	Enter the Password associate with the Account on the SFTP backup server.
Server Address	Enter the SFTP server address.
Destination Directory	Specify the directory in SFTP server to keep the backup file. Format: 'xxx/xxx', If this directory does not exist, UCM will create this directory automatically.
Sync Time	Enter 0-23 to specify the backup hour of the day.

Table 154: Data Sync Configuration

Before saving the configuration, users could click on + Test Connection . The UCM630X will then try connecting the server to make sure the server is up and accessible for the UCM630X. Save the changes and all the backup logs will be listed on the web page. After data sync is configured, users could also manually synchronize all data by clicking on + Synchronize All Data instead of waiting for the backup time interval to come.

Restore Configuration from Backup File

To restore the configuration on the UCM630X from a backup file, users could go to Web GUI \rightarrow Maintenance \rightarrow Backup \rightarrow Backup/Restore.

- A list of previous configuration backups is displayed on the web page. Users could click on \mathfrak{O} of the desired backup file and it will be restored to the UCM630X.
- If the backup was stored on GDMS, it will be displayed under Backups GDMS Cloud Storage, that can be restored by clicking on 🔊
- If users have other backup files on PC to restore on the UCM630X, click on "Upload Backup File" first and select it from local PC to upload on the UCM630X. Once the uploading is done, this backup file will be displayed in the list of previous configuration backups for restore purpose. Click on \bigcirc to restore from the backup file.

Backup				
Backup/Restore	Data Sync			
Backup file must be in .ta	r format and less than 30MB in size.	Filename supports alphanumber characters, dashes (-), a	nd underscores (_).	
📰 Backup 🛛 📰	Schedule Backup 🕺 🗘 Uplo	ad		
Local Backups				
🗊 Delete				
NAME \$		DATE \$	SIZE \$	OPTIONS
		No Data		
Backups in GDMS Clou	d Storage			
Delete				
NAME		DATE	SIZE	OPTIONS
backup_20207	717_124754.tar	2020-07-17 12:49:04	14.61MB	平 心 🛄
		< <u>1</u> >		Total: 1 10 / page ~ Goto 1

Figure 357: Restore UCM630X from Backup File

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- The uploaded backup file must be a tar file with no special characters like *,!,#,@,&,\$,%,^,(,),/,\,space in the file name.
- The uploaded back file size must be under 10MB.

System Cleanup/Reset

Reset and Reboot

Users could perform reset and reboot under Web GUI→Maintenance→System Cleanup/Reset→Reset and Reboot.

- $\circ~$ To reboot the device, click on reboot icon.
- To factory reset the device, click on reset icon, then all the configurations and data will be reset to factory default.

System Cleanu	on tebec		
Reset & Reboot	Cleaner	USB Disk/SD Card File Management	



Figure 358: Reset and Reboot

• User can also verify UCM certificate under the same path.

Cleaner

Users could configure to clean the Call Detail Report/Voice Records/Voice Mails etc... manually and automatically under Web GUI → Maintenance → System

Cleanup/Reset→Cleaner.

The following screenshot show the settings and parameters to configure the manual cleaner feature on UCM630X.

Figure 359: Manual Cleaning

UCM regularly cleans up CDRs, report data, chat data, recording files, historical appointment meeting records, voice mail, backup files, and fax files. The report data includes queue statistics report and conference room call statistics report; chat data includes chat messages and chat shared files; historical

appointment conferences include audio and video conference appointment records. Automatic cleanup is not enabled by default and supports regular cleanup

of database data based on dimensions such as cleanup time, cleanup conditions, and cleanup interval.

User can also set an automatic cleaning under Cleaner -> Automatic Cleaning. The following screenshot show the settings and parameters to configure the

cleaner feature on UCM630X.

System Cleanup/Reset		
Reset & Reboot Cleaner USB Disk/SD C	ard File Management	
Manual Cleaning Automatic Cleaning		
Clean CDR, recordings, voicemail, fax, statistics report and IM	rlata automatically	
CDR Cleaner	anan muran muran ya	
Enable Cleaner:		
Enable Cleaner-		
Cleaning Conditions:		
Clean Interval (d):		
Report Cleaner		
Enable Cleaner:		
Cleanup Type: :	Queue Statistics Report	
	Scheduled Audio Meeting History	
Clean Time:	0	
Cleaning Conditions:	By Schedule	
Clean Interval (d):	1	
IM Data Cleaner		
Enable Cleaner:		
Cleanup Type: :	M Message	
Clean Time :		
Cleaning Conditions :		
File Clean Interval (d):		
File Cleaner		
Enable Cleaner:		
Clean Files in External Storage:		
Choose Cleaner Files:	Basic Call Recording Files	
	Call Queue Recording Files Emergency Calls Recording Files	Volcemail Files
	Enregency cansineer uning mes Backup Files	SCA Recording Files
Clean Time :		
Cleaning Conditions :		
File Clean Threshold :		
Keep Last X Days :		
Cleaner Log		
ien Clean		

Figure 360: Automatic Cleaning

Enable CDR Cleaner	Enable the CDR Cleaner function.
CDR Clean Time	Enter 0-23 to specify the hour of the day to clean up CDR.

	By Schedule: If the clean interval is 3, cleaning will be performed every 3
	days to remove all records that were generated 3 days ago.
	Keep Last X Records: If the max number of CDR has been reached, CDR
Cleaning	will be deleted starting with the oldest entry at the configured cleaning
Conditions	time.(Note: The amount of records displayed on the page of call queue
	statistics is not one-to-one with the actual amount of records in the
	database.)
	Keep Last X Days: Delete all entries older than X days.
Clean	Enter 1-30 to specify the day of the month to clean up CDR when By
Interval	Schedule is selected as Cleaning Conditions.
Max Entries	Set the maximum number of CDR entries to keep when Keep Last X
Max Entries	Records is selected as Cleaning Conditions.
Keep Last X	Enter the number of days of call log entries to keep when Keep Last X days
Day	is selected as Cleaning Conditions .
Enable	Enable scheduled guoue log cleaning. By default is disabled
Report Cleaner	Enable scheduled queue log cleaning. By default, is disabled.
	Queue Statistics Report
Cleanup Type	Meeting Call Statistics Report
	 Scheduled Audio Meeting History Scheduled Video Meeting History
	 Scheduled Video Meeting History
Clean Time	Enter the hour of the day to start the cleaning. The valid range is 0-23.

Cleaning

Conditions

Keep Last X Records: If the max number of Queue Statistics has been reached, Queue Statistics will be deleted starting with the oldest entry at the configured cleaning time.(Note: The amount of records displayed on the page of call queue statistics is not one-to-one with the actual amount of records in the database.)

Keep Last X Days: Delete all entries older than X days.

By Schedule: If the clean interval is 3, cleaning will be performed every 3

days to remove all records that were generated 3 days ago.

Clean	Enter how often (in days) to clean queue logs when By Schedule is			
Interval	selected as Cleaning Conditions . The valid range is 1-30.			
Max Entries	Set the maximum number of Queue Statistics entries to keep when Keep Last X Records is selected as Cleaning Conditions.			
Keep Last X	Enter the number of days of call log entries to keep when Keep Last X days			
Day	is selected as Cleaning Conditions.			
Enable Conference				
Statistics	Enable scheduled Conference log cleaning. By default, is disabled.			
Report				
Cleaner				
Cleaning Conditions	 By Schedule: If the clean interval is 3, cleaning will be performed every 3 days to remove all records that were generated 3 days ago. Keep Last X Records: If the max number of Conference Statistics Report has been reached, Conference Statistics Report will be 			
	deleted starting with the oldest entry at the configured cleaning time. (Note: The amount of records displayed on the page of call queue statistics is not one-to-one with the actual amount of records in the database.)			
	 Keep Last X Days: Delete all entries older than X days. 			
Clean	Enter how often (in days) to clean queue logs when By Schedule is			
Interval	selected as Cleaning Conditions . The valid range is 1-30.			
Max Entries	Set the maximum number of Conference Statistics Report entries to keep when Keep Last X Records is selected as Cleaning Conditions.			
Keep Last X Day	Enter the number of days of call log entries to keep when Keep Last X days			
	is selected as Cleaning Conditions .			
Enable File Cleaner	Enter the Voice Records Cleaner function.			
Clean Files	If enabled the files in external device (USB/SD card) will be atomically			

in	Ext	tern	al
----	-----	------	----

cleaned up as configured.

Device

	elect the files for system automatic clean.
0	• Basic Call Recording Files.
	• Conference Recording Files.
	• Call Queue Recording Files.
	• Voicemail Files.
0	◇ Backup Files.
Clean time Ent	nter the hour of the day to start the cleaning. The valid range is 0-23.
0	• By Schedule: If the clean interval is 3, cleaning will be performed every 3 days to delete all files.
_	• By Threshold: Check at the configured cleaning time every day to see if the storage threshold has been exceeded and perform
Conditions	 cleaning of all files if it has. Keep Last X Days: Delete all files older than X days.
	• Keep Last A Days. Delete an mes older than A days.
File Clean Ent Interval	nter 1-30 to specify the day of the month to clean up the files.
Ent	nter the internal storage disk usage threshold (in percent). Once this
File Clean three Threshold	reshold is exceeded, the file cleanup will proceed as scheduled. Valid
ran	nge is 0-99.
Keep Last X Au	utomatically delete all recordings older than this x days when the threshold
Days is r	reached. If not set, all data is cleared
Cleaner Log Pre	ress Clean "button" to clean the cleaner's log.

Table 155: Automatic Cleaning Configuration

All the cleaner logs will be listed on the bottom of the page.

 $Users \ could \ configure \ to \ clean \ or \ download \ the \ Call \ Detail \ Report/Voice \ Records/Voice \ Mails \ automatically \ under \ Web \ GUI \ \rightarrow Maintenance \ \rightarrow System$

Cleanup/Reset→USB / SD Card Files Cleanup.

et & Reboot Cleaner	USB Disk/SD Card File Management				
 USB Disk sda1 PBX_Queue_000B826704AF 	Delete				
 PBX_SCA_000B826704AF PBX_Emergency_000B826704AF PBX_Conferences_000B826704AF 	NAME 🕏	TYPE ≑	DATE 🗘	SIZE 单	OPTIONS
	Backup.tar	File	2019-11-05 17:06:46 UTC+02:0 0	18.68 M B	1
 PBX_Recordings_000B826704AF System Volume Information 	PBX_Queue_000B826704AF	Directory	2019-11-05 16:08:30 UTC+02:0 0	4.00 KB	<u> </u>
No SD card	PBX_SCA_000B826704AF	Directory	2019-11-05 16:08:30 UTC+02:0 0	4.00 KB	₫ ⊻
	PBX_Emergency_000B826704 AF	Directory	2019-11-05 16:08:30 UTC+02:0 0	4.00 KB	<u> </u>
	PBX_Conferences_000B82670 4AF	Directory	2019-11-05 16:08:30 UTC+02:0 0	4.00 KB	<u> </u>
	PBX_Recordings_000B826704	Directory	2019-11-05 16:08:30 UTC+02:0 0	4.00 KB	<u>ت</u> ل

Figure 361: USB/SD Card Files Cleanup

Current Path	Displays the current path.
Directory	Select the directory user want to clean.
Delete Selected File	Select multiple entries to delete from USB or SD card.

Table 156: USB/SD Card Files Cleanup

System Recovery

In some cases (for example after wrong upgrading procedure where the user doesn't follow the correct steps to perform an upgrade) the system may go into some hardware/software issues where the web UI access is lost as well as SSH, in this case the only solution would be to perform a full system recovery in order to reset or update the software version of the device in order to use it again.

- 1. To access recovery mode on UCM, please follow below steps:
- 2. Remove the power from the unit and keep the network cable connected.
- 3. Press using a PIN the reset button and keep holding.
- 4. Plug back the power supply while maintaining the reset button pressed.

5. Wait for couple of seconds until you hear a click sound.

6. Release the reset button, and the system should display on the LCD a message "Recovery Mode" along with an IP address.

Once at this stage, the administrator can access the recovery mode web portal by typing in either the IPO address (typically WAN) or IP1 address (typically

LAN) into a browser address bar. The following page should appear:

_	
Recover	
UCM6302 V1.3A	
Usemame	
Password	
Logn	

Figure 362: UCM6302 Recovery Web Page

Make sure to enter the correct admin password, and press login to access the recovery mode page :

Status Hardware Revision : Boot Version : Core Version : Base Version : Program Version : Language Version : Upload File : Factory Reset : Reboot :	V1.3A 1.0.0.13 1.0.0.13 1.0.0.13 1.0.0.13 1.0.0.13	Upload Reset Reboot
--	---	---------------------------

Figure 363: Recovery Mode

From here, the user can either upload a firmware file, factory reset or just reboot the device.

Syslog

On the UCM630X, users could dump the syslog information to a remote server under Web GUI \rightarrow Maintenance \rightarrow Syslog. Enter the syslog server hostname or IP address and select the module/level for the syslog information as well as Process Log Level.

The default syslog level for all modules is "error", which is recommended in your UCM630X settings because it can be helpful to locate the issues when errors happen.

Some typical modules for UCM630X functions are as follows and users can turn on "NOTICE" and "VERBOSE" levels besides "error" level.

• **pbx**: This module is related to general PBX functions.

• **pjsip**: This module is related to SIP calls.

• chan_dahdi: This module is related to analog calls (FXO/FXS).

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- Syslog is usually for debugging and troubleshooting purpose. Turning on all levels for all syslog modules is not recommended for daily usage. Too many syslog prints might cause traffic and affect system performance.
- The reserved size for Syslog entries on the cache memory of the UCM is 50M, once this sized is reached the UCM will clean up 2M of the oldest Syslog entries to allow to save new logs.

Network Troubleshooting

On the UCM630X, users could capture traces, ping remote host and traceroute remote host for troubleshooting purpose under Web

GUI→Maintenance→Network Troubleshooting.

The following sections shows the steps to capture different types of traffic traces for analysis purposes.

Ethernet Capture

Ethernet Capture allows capturing the traffic of the UCM for troubleshooting purposes. To access Ethernet Capture feature, please navigate to Maintenance

\rightarrow Network Troubleshooting \rightarrow Ethernet Capture

The capture packets can be stored locally and downloaded for analysis. However, if the user is diagnosing a randomly-occurring issue, he/she can run a

continuous packet capture which can be limited by the size of the packet capture and the number of packet capture instances

9 Important

When the maximum packet capture file size is reached, a new packet capture file will be created. When the maximum number of capture files number is reached,

then the UCM will delete the oldest file created file and replace it with the new one.

Capture Type Ethernet Capture: Gets a packet capture of all network traffic going through the device.

	WebSocket Capture: Gets a packet capture of WebSocket protocol. Mainly used for troubleshooting Wave Web calling and conferencing issues.
Interface Type	Select the network interface to monitor.
Capture Filter	Enter the filter to obtain the specific types of traffic, such as (host, src, dst, net, proto).
Storage Location	 Local: Store the captured packets in the local storage. SFTP Server: Save the capture trace to a SFTP server. Please make sure that SFTP is correctly configured under PBX Settings -> Online Storage -> SFTP Server External Storage: Save the capture trace in a usb flash drive or an SD card. This requires that a USB flash drive or SD card to be plugged into the UCM. File formats supported are FAT32 and ExFat.
Save to External Storage	When or more external storage units are connected to the UCM6300 series, the user will be able to pick which one to use. Note: This option is available only when you choose "External Storage" as the storage destination of the capture trace.
Destination Directory	When SFTP is selected, this option will appear. Please enter the directory path in which you would like to store the captured packets.
Packet Capture Size	This option appears only when "External Storage" or "SFTP" options are selected. Define the packet capture size, the option available are: 50MB, 100MB, and 200MB.
Number of Packet Capture	Define the maximum number of the packets captured. The available options are 5, 10, and 20 packets.
► Start	Start capturing network traffic.
Stop	Stop capturing network traffic.
La Download	Download the captured packets. This option can only be used when the captured packets are stored locally.
Enable SRTP Debugging	Check this box to troubleshoot calls encrypted with TLS/SRTP.

The output result is in .pcap format. Therefore, users could specify the capture filter as used in general network traffic capture tool (host, src, dst, net, protocol, port, port range) before starting to capture the trace.

Capture files saved on external devices will now have "capture" prepended to file names.

IP Ping

Enter the target host in host name or IP address. Then press "Start" button. The output result will dynamically display in the window below.

Network Troublesh	nooting			
Ethernet Capture	IP Ping	Traceroute		
* Target Host:	115.23	36.68.171		
Chart				
Start				
Output Result				
Dignostic run				
		3.171) 56(84) bytes of da		
64 bytes from 115	.236.68.171: ici	mp_seq=1 ttl=64 time=2 mp_seq=2 ttl=64 time=1	.00 ms	
-		mp_seq=3 ttl=64 time=1 mp_seq=4 ttl=64 time=1		
-		mp_seq=5 ttl=64 time=1		
115.236.68.171				
		d, 0% packet loss, time 4 .246/2.115/0.435 ms	004ms	
Done				

Figure 365: Ping

Traceroute

Enter the target host in host name or IP address. Then press "Start" button. The output result will dynamically display in the window below.

N	letwork Troubles	shooting		
Eth	ernet Capture	IP Ping	Traceroute	
*	Target Host:	115.23	6.68.171:8089	
	▶ Start			
	Output Result			
	Dignostic run			Ê
	1 Vigor.router (19 2 196.64.0.1 (196	92.168.5.1) 0.21 .64.0.1) 11.602	89 (115.236.68.171), 30 hops max, 38 byte packets 4 ms 0.177 ms 0.173 ms ms 22.990 ms 2.511 ms	
			net.ma (81.192.65.162) 2.846 ms 3.590 ms adsl-170-65- 2.65.170) 2.716 ms	
	4 adsl-161-65-192	2-81.adsl2.iam.	net.ma (81.192.65.161) 2.611 ms adsl-169-65-192-	
	81.adsl2.iam.net. (81.192.65.161) 2		169) 2.985 ms adsl-161-65-192-81.adsl2.iam.net.ma	
			t.ma (81.192.12.34) 5.105 ms adsl-30-12-192-	
			0) 3 747 ms adsl-34-12-192-81 adsl iam net ma	

81.adsi.iam.net.ma (81.192.12.30) 3.747 ms adsi-34-12-192-81.adsi.iam.net.ma (81.192.12.34) 7.316 ms 6 te0-1-0-15.ccr22.mrs01.atlas.cogentco.com (149.14.125.81) 30.170 ms 32.045 ms 31.548 ms

Figure 366: Traceroute

Record Meeting for Diagnosis

Enter the target meeting, support the ongoing meeting, and then click the "Start" button to capture the recording diagnosis of the meeting members in

progress. The output result will be automatically displayed below, click the "download" button to download to the local. After the download is complete, immediately click the "Delete" button to clear the system content.

Network Trouble	eshooting		
Ethernet Capture	IP Ping	Traceroute	Record Meeting for Diagnosis
* Target Meeting:		~	
🕨 Start 🛛 坐	Download j	Delete	
Output Result			

Figure 367: Record Meeting for Diagnosis

Signaling Troubleshooting

Analog Record Trace

• Analog Record Trace

Analog record trace can be used to troubleshoot analog trunk issue, for example, the UCM630X user has caller ID issue for incoming call from Analog trunk. Users can access analog record trance under Web GUI \rightarrow Maintenance \rightarrow Signal Troubleshooting.

Here is the step to capture trace:

- 1. Select FXO or FXS for "Record Ports". If the issue happens on FXO 1, select FXO port 1 to record the trace.
- 2. Click on "Start".
- 3. Make a call via the analog port that has the issue.
- 4. Once done, click on "Stop".
- 5. Click on "Download" to download the analog record trace.

Signaling Troubleshoot	ting	
Analog Record Trace	○ Key dial-up FXO	
* Record Ports :		
FXO Ports:	🗌 All 🛃 1 📃 2	
FXS Ports:	All 1 2	

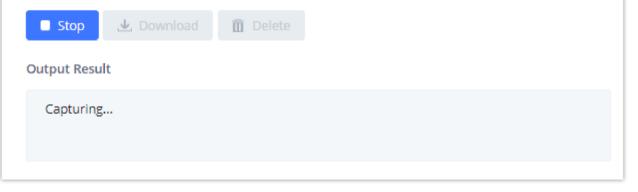


Figure 368: Troubleshooting Analog Trunks

• A key Dial-up FXO

Users can directly set a PSTN number on the "**External Extension**" text box to troubleshoot issues related to the analog trunk easily, the following steps shows how to use this feature:

- 1. Configure analog trunk on UCM, including outbound route.
- 2. Enter a reachable external number in "External Extension".
- 3. Press "Start" button. The call will be initiated to the external number.
- 4. Answer and finish the call before pressing "Stop" button.

The trace will be available for analysis to download after output result shows "Done! Click on Download to download the captured packets".

Signaling Troubleshooting		
 Analog Record Trace Key 	dial-up FXO	
* External Number:	99235467	
🗖 Stop 🛃 Download	Delete	
Output Result		
Capturing		

Figure 369: A Key Dial-up FXO

When using a Key Dial-up FXO feature the outbound trunk for the analog trunk need to have internal permission. As well as it should be the trunk with the highest outbound route priority.

After capturing the trace, users can download it for basic analysis. Or you can contact Grandstream

Technical support in the following link for further assistance if the issue is not resolved.

https://helpdesk.grandstream.com/

Service Check

Enable Service Check to periodically check UCM630X. Check Cycle is configurable in seconds and the default setting is 60 sec. Check Times is the maximum number of failed checks before restart the UCM630X. The default setting is 3. If there is no response from UCM630X after 3 attempts (default) to check, current status will be stored and the internal service in UCM630X will be restarted.

Service Check		

Enable Server Check :	
* Check Cycle:	60
* Check times:	3

Figure 370: Service Check

Network Status

In UCM630X Web GUI → System Status → Network Status, the users can view active Internet connections. This information can be used to troubleshoot connection issue between UCM630X and other services.

Figure 371: Network Status

APPENDIX A: RFC STANDARDS USED IN UCM6300 SERIES

- RFC 3261 SIP: Session Initiation Protocol
- RFC 3262 Reliability of Provisional Responses in SIP
- RFC 3263 Session Initiation Protocol (SIP): Locating SIP Servers
- RFC 3264 An Offer/Answer Model with the Session Description Protocol
- RFC 3515 The Session Initiation Protocol (SIP) Refer Method
- RFC 3311 The Session Initiation Protocol (SIP) UPDATE Method
- RFC 4028 Session Timers in the Session Initiation Protocol (SIP)
- RFC 2976 The SIP INFO Method
- RFC 3842 A Message Summary and Message Waiting Indication Event Package for the Session Initiation Protocol (SIP)
- RFC 3892 The Session Initiation Protocol (SIP) Referred-By Mechanism
- RFC 3428 Session Initiation Protocol (SIP) Extension for Instant Messaging
- RFC 4733 RTP Payload for DTMF Digits, Telephony Tones, and Telephony Signals
- RFC 4566 SDP: Session Description Protocol
- RFC 2617 HTTP Authentication; Basic and Digest Access Authentication
- **RFC 3856** A Presence Event Package for the Session Initiation Protocol (SIP)
- RFC 3711 The Secure Real-time Transport Protocol (SRTP)
- **RFC 4582** The Binary Floor Control Protocol (BFCP)
- RFC 4583 Session Description Protocol (SDP) Format for Binary Floor Control Protocol (BFCP) Streams
- RFC 5245 Interactive Connectivity Establishment (ICE): A Protocol for Network Address Translator (NAT) Traversal for Offer/Answer Protocols
- **RFC 5389** Session Traversal Utilities for NAT (STUN)
- RFC 5766 Traversal Using Relays around NAT (TURN): Relay Extensions to Session Traversal Utilities for NAT (STUN)
- **RFC 6347** Datagram Transport Layer Security Version 1.2
- **RFC 6455** The WebSocket Protocol
- RFC 8860 Sending Multiple Types of Media in a Single RTP Session

- RFC 4734 Definition of Events for Modem, Fax, and Text Telephony Signals
- RFC 3665 Session Initiation Protocol (SIP) Basic Call Flow Examples
- RFC 3323 A Privacy Mechanism for the Session Initiation Protocol (SIP)
- RFC 3550 RTP: A Transport Protocol for Real-Time Applications

CHANGELOG

This section documents significant changes from previous versions of the UCM630X user manuals. Only major new features or major document updates are listed here. Minor updates for corrections or editing are not documented here.

Firmware Version 1.0.21.9

- Added SMS service support. [SMS Settings]
- Added support for creating shared departments. [Department Management]
- Added support for RADIUS login. [RADIUS]
- Added support for private intercom. [Configure Private Intercom]
- Added support for setting an extension as the default destination in Click2call. [Integrated Customer Service]
- Added support for SIP TLS cipher suite. [TCP & TLS]
- Added size and packet number limit for continuous packet capture when using USB/SD card storage or SFTP. [Ethernet Capture]
- Added support for resetting TLS certificates to the default ones. [TCP & TLS]
- Added support for SSH token. [SSH Access]
- Added support for subscribing to a voicemail group. [Configure Voicemail Group]
- Added support for setting separate call forwarding conditions for external and internal calls. [Create New SIP Extension]
- Added support for forwarding calls to a custom prompt. [Create New SIP Extension]
- Added support for external numbers to opt out of being recorded when calling into the UCM. [PBX Settings]
- Added support for caller name look up. [Inbound Routes]
- The name of the agent will now be displayed in the switchboard. [Switchboard]
- Agent pause can now be performed quickly by dialing the respective feature code and the corresponding pause reason without having to interact with the IVR. [Configure Call Queue]
- Agent pause reason will now be displayed in the switchboard. [Switchboard]
- Added support for enabling the welcome prompt to be played simultaneously with background music while the agent phone is ringing. [Configure Call

Firmware Version 1.0.19.10

• Specific time configuration is now included in extension exports

Firmware Version 1.0.19.9

• Optimized various system processes

• Added Onsite Meetings feature. [Onsite Meeting]

• Added ability to customize extension call waiting tone [General Call Prompt Tones]

- Updated Zoho CRM authentication process [Zoho Telephony]
- {VM_DATE} date value format has been changed to MM/dd/yyyy hh:mm:ss from DDD yyyy MMM hh:mm:ss. [Configure Fax/T.38] [Voicemail Email Settings]
- Added Device Name \${DEVICE_NAME} variable to Alert Events and Emergency Calls email templates
- Added Geolocation header support [Emergency Location Mapping]
- Added P-Called-Party-ID header option to the Add/Edit Extension -> Features page [Create New SIP Extension]
- Added Allow Operator Panel Monitoring extension option to toggle whether the Operator Panel can monitor the extension. [Create New SIP Extension]
- Added Basic extension export option [Export Extensions]
- Allow Call-barging Extension List option changed to Call Monitoring Whitelist [Create New SIP Extensions] [Create New IAX Extension]
- Added Silence Suppression option to Extensions/VoIP Trunks page [Create New SIP Extension] [VoIP Trunk Configuration]
- If a storage device is full, the UCM will mark it as unavailable and automatically change file storage path to the next available location based on the *Storage Path Priority*. Previously, UCM would change the file storage path to its own local storage if external storage was full. [File Manager]
- Added new commands related to call queue and Wave [API Configuration Parameters]
- Added support for multiple API (new) users [API Configuration Parameters]
- Added the *Default Certificate Auto Renewal* option. If enabled, the default browser certificate will be automatically renewed after 398 days (the max certificate validity period of Chrome, Firefox, and Safari browsers). User-defined certificates are not affected. [HTTP Server]
- Added ability to sync local IM data to Cloud IM [Cloud IM Service]
- Added ability create custom IVR key presses [Custom Key Event]
- Added *Chat Data from Endpoint* option to the Maintenance -> System Cleanup/Reset -> Cleaner page. If enabled, this option will clean out chat data from Wave clients at the same time as the UCM's server-side automatic/manual cleaning of chat data. [Cleaner]
- Added support for meeting room passwords. However, meetings cannot be scheduled for rooms with meeting password enabled. [Multimedia Room Configurations]
- Meeting kick warning interval has been changed from 30 mins to 20 mins. Note: This kick warning will only play when there is only 1 person in a meeting room, and if they do not opt to stay in the meeting room after the warning, they will be removed from the meeting room after 5 minutes.
- ARP will now be used instead of ping to check NAS connectivity.
- Upgrade logs will now contain firmware version information.
- Queue chairmen can now log out dynamic agents
- Added video paging support. [Configure 1-way Paging]
- Added option to automatically reset user/Wave password upon check-in/check-out. [Local PMS]

• Added option to clear Wave chat history automatically upon check-in or check-out. [Local PMS]

Added Local PMS functionality [Local PMS]

• Check-out will no longer reset the "Skip Voicemail Password Verification" extension setting

• Added ability to assign two extensions to a room [Room Management]

• Added option to clear scheduled wakeup calls on both check-in and check-out. [Local PMS]

• Added the ability to change the default call privilege of a room. A room's privilege will be reset to this value after a guest checks out of it.

• Added support for stereo audio recording [General Settings]

• Added option to route calls based on a caller's Diversion header value [Inbound Rule Configuration]

- Added ability to control whether to use failover trunks based on the call response codes [Failover Trunk Toggles]
- Added support for H.264 with multiple payload types in SDP
- When receiving an INVITE with no SDP, following INVITEs with SDP will offer H.264 1080p resolution by default.
- In the scenario where an inbound external call is forwarded from an extension to an external number, the Contact header will now use the CID of the forwarding extension instead of the caller's CID.
- Removed *External Device Usage Threshold* option. If a connected NAS has only 1GB remaining available storage space, it will be considered unavailable and trigger the external disk usage alert. [NAS]
- Added User Endpoint Access History page [User Endpoint Access History]
- Added User Portal/Wave privilege control [User Portal/Wave Privilege]
- Dial Trunk option has been renamed to Dial External Number and moved to the Dial Other Extensions section
- The Wave Welcome email will now use the port number configured in System Settings->HTTP Server->Wave Settings->Port if the Wave Settings->External Host value is not a RemoteConnect address or does not contain a port number.
- Added links to relevant online documentation to various pages of the UCM webUI.
- Added Phonebook VMPK mode to GRP261x template
- Added Firmware tab for improved firmware management [Firmware]
- Added ability delete downloaded base model templates in the Model Update page
- Added ability to search for templates via the device model name
- Added ability to select either LAN1 or LAN2 to scan for devices on when using dual network method

Firmware Version 1.0.17.11

• Several system process optimizations

Firmware Version 1.0.17.8

- Updated python version to 3.8 and related processes.
- Improved speed of applying changes
- Updated lightpd version to 1.4.61
- The Privilege Name field now supports parenthesis ()
- The Contacts page has been moved to its own category in the sidebar
- Added https://www.zohoapis.in option to CRM Server Address list
- Added Channel Path option for accessing specific IP camera channels via URL [Device Management]
- Improved alert email sending process
- Updated Remote Registration email template
- Emergency calls will no longer be restricted by the RemoteConnect call limit.
- The default highest priority codec is now G.722.
- Added Remote Extension Privilege Update feature code and Remote Extension Privilege Update Whitelist field to allow specified users to remotely change extensions' privileges. [Feature Codes]
- Automatic file migration after file storage path failure to the next storage location in the storage priority path.
- Users can now customize the storage path priority for recordings, video recordings, and IM files. [File Manager]

- FXO FSK CID detection now uses spandsp.
- If SIP extensions synced from UCMs are deleted on GDMS, they will no longer be synced again.
- If HA is enabled, the HA cluster IP address will now be provisioned as the config server to endpoints instead of the active UCM's IP address.
- Added support for configuring inbound route blacklist via HTTPS API.
- If dialing into a Dial by Name directory, the call will end automatically after failing 3 times.
- Added Server Type option to the LDAP Server→LDAP Phonebook→Phonebook Download Configurations page. Users can select between LDAP and Active Directory. [LDAP Server]
- Added Department field to LDAP phonebook contacts. [LDAP Server]
- Added meeting room extensions to LDAP phonebooks. [LDAP Server]
- External Contacts created from the Contacts page will now be added to the system's internal LDAP phonebook. [LDAP Server]
- Added Remote Login tab to the Maintenance→Login Settings page. [Maintenance]
- Created new Meetings Settings page under the Multimedia Meetings page and moved several meeting-related options to it. [Multimedia Meeting]
- Regular meeting participants can now invite other members to join the meeting by dialing 1 if "Allow User Invite" is enabled. [Multimedia Meeting]
- Meetings will become "Pending" after rescheduling.
- Pending meetings are now sorted by start time by default.
- Added the Allowed to Override Host Mute option to the Edit Meeting Room and Schedule Meeting pages to allow participants to unmute themselves even after the meeting host mutes them. [Multimedia Meeting]
- Added support for user authentication. [OpenVPN]
- Operation Log entries will now contain the IP address and location information from which the operation originated. [Operation Log]
- Added option Automatically Clear Wakeup Calls for deleting scheduled wakeup calls after either guest check-in and check-out. [PMS Features]
- Users can now dial the Update PMS Room Status feature code, the maid code, and the room status code all at once to change room status. [PMS Features]
- Added a Scan button to manually retrieve the list of recordings on external storage. The UCM automatically displays up to 5000 recordings on attached external storage, but pressing this button will allow the UCM to display more. [Recordings Files]
- Added ability to batch delete cloud storage files.
- If IP endpoints cannot connect to the GDMS TURN server via UDP, UCM will use TCP to connect them.
- Added Trunk Registration Period (s) option to SIP Settings->Misc. [SIP Settings]
- Added option Special Attributes to the Extension/Trunk→VoIP Trunks→Edit SIP Trunk→Advanced Settings page. If enabled, the following attributes will be included in the SIP SDP: ssrc, msid, mid, ct, as, tias, record. Enabling this may cause compatibility issues with non-Grandstream devices. [VoIP

Trunk Configuration]

- Added CEI msid for audio calls.
- Added trickle-ice param to SIP OPTION's 200 OK.
- profile-level-id will be added to 200 OK when receiving INVITEs without SDP.
- Added ability to import/export speed dials. [Speed Dial]
- Improved processes to avoid duplicate alerts for the following events: Registered SIP Trunk failed, Local Disk Usage and External Disk Usage.
- Separated Allow Deletion of CDR and Recordings option to Allow Deletion of CDR and Allow Deletion of CDR Recordings. [User Management]
- Added the Call Waiting option to the User Portal.

- Added support for voicemail message seeking. When listening to voicemail, users can press star (*) to rewind 3 seconds or pound (#) to fast forward 3 seconds. [Voicemail]
- Added Line Selection Strategy option for Trunk Groups. [VoIP Trunks] 0
- Changed register trunk Username field name to Trunk Registration Number. [VoIP Trunks]
- General web UI improvements
- Added Help option under the username dropdown menu that will redirect to the UCM6300 Series FAQ. 0
- Updated some tooltips.
- Optimized search functionality
- Added GMT+2:00 (Israel) option to Time Zone drop down list in all Zero Config pages. 0
- Added support for WP22 and WP825 model templates.

Firmware Version 1.0.15.13

- Added SNMP monitoring feature. [SNMP]
- Added support to configure the time of a holiday. [Holiday] 0
- Added ability to determine the maximum total call duration per trunk for outbound calls.
- Added contact viewing privilege (independent from Department Contact Privilege). [Contacts] 0
- Added support for agent ID announcement. [Call Queue] 0
- Added support for Service Level Agreement for Call Queue. [Service Level Agreement]
- Added support for changing the Meeting room's name. 0
- Added WebRTC Trunk feature. [WebRTC Trunks] 0
- Extension data cleaning has been improved. [Search and Edit an Extension]
- Added support for SRTP Crypto Suite. [Create New SIP Extension] 0
- STIR/SHAKEN has been improved. [STIR/SHAKEN]
- Added support for displaying the extension that initiated an emergency call in the emergency email notification. 0
- Added support for collecting ICE candidates when an RTP connection is requested. [RTP Settings]
- Added support for recording a Multimedia Meeting shared screen only with the audio of the participants.
- Flood Attacks and Network Traffic Storm alerts have been added to the Alert Events List.
- Added support for Network Port Traffic Control for the ports of the UCM63xx.
- Added Support for limiting the frequency of calls that can be made in a period of time.
- Added support for storing the local chat files in the GDMS.
- UCM RemoteConnect plan expiry screen has been improved.
- GDMS Cloud Storage Space details can now be viewed in the RemoteConnect menu.

Firmware Version 1.0.13.9

- Added option to enable/disable DND status remotely for an extension. [CALL FEATURES]
- Added local proxy in IM settings. [Table 6: Cloud IM Parameters]
- Added support for enabling/disabling auto audio/video recording for meeting. [Auto Record]

- Added privilege management for contacts. [Privilege Management]
- Improved fail2ban blacklist display. [Blacklist]
- Improved email template for scheduling meeting. [Email Templates]
- Contacts sync-up between UCM and end points (wave/IP phones). [LDAP Settings]
- Added ability to specify DOD number based on outbound route. [Outbound Routes DOD]
- Fixed an issue where updating model templates will result in deleting the existing ones.
- Added support to use TURN Relay as an option to allow hosts behind NAT firewalls to communicate. [VoIP Trunk Configuration]

Firmware Version 1.0.11.10

- Combined audio meeting and video meeting to multi-media meeting. [MULTIMEDIA MEETING]
- Updated UCM6301 public meeting room number from 3 to 4. [MULTIMEDIA MEETING]
- Added operator panel. [OPERATOR PANEL]
- Added time condition support for IVR key events. [Key Press Event]
- Supported adding comments for fail2ban whitelist. [Fail2Ban Whitelist]
- Added Call Flip feature code. [Call Flip]
- Added cloud IM abnormal alert event. [Cloud IM abnormal]
- Added option "Play Follow Me Prompt". [Play Follow Me Prompt]
- Add option "Ignore 180 Response". [Ignore 180 Response]
- Added Multi-Factor Authentication for UCM login. [Multi-Factor Authentication]
- Added support for IoT device management. [DEVICE MANAGEMENT]
- Added remark for UCM system status. [Remark]
- Added option to enable and disable passwordless for remote access. [Figure 255: UCM RemoteConnect Plan Settings]
- Added option to enable and disable virtual queue call back keys settings. [Virtual Queue Callback Key]
- Added option to enable IPv6 for HA settings. [Enable IPv6]
- Added Address Book Management section. [Address Book Management]
- Added option "Stop Ringing". [Stop Ringing]
- Add option "Email Missed Call Log". [Email Missed Call Log]
- Add option "Security Mode" for NAS settings. [Security Mode]

• Removed display for consumer users on the user management page. [Figure 326: Create New User]

Firmware Version 1.0.9.10

- Added Support for import/export Zero Config. [Figure 68: Global Policy Categories]
- Added support for Enable Wave and Sync Contact under the extension. [Enable Wave][Sync Contact]
- Added support for Custom time supplement time conditions. [Time Condition]
- Added support for Call Restriction. [RESTRICT CALLS]
- Added support for Queue Metrics. [QUEUE METRICS]

- Added support for CDR API whitelist. [Permitted IP]
- Added support for Call queue satisfaction survey. [Queue satisfaction statistics][Agent satisfaction statistics].
- The old API Configuration is reopened for use. [HTTPS API Settings (Old)]
- Custom permissions support the function of deleting CDR and recording files. [delete CDR and recording files]
- Added support to adjust the recording file storage path. [File Storage Management]
- High Availability feature on UCM6300 series. [HA]
- Paging/Intercom supports delayed paging. [Delayed Paging]
- UCMRC remote service diagnosis. [Figure 253: Remote Diagnosis]
- Support LDAP to automatically update the phone book. [LDAP Automatic Update Cycle]
- Support meeting room automatic gain control. [Meeting AGC]

Firmware Version 1.0.7.12

- Added support for an email reminder when editing the time of a scheduled meeting. [Email Reminder (m)]
- Improved extension status syncing process to the IM server.

Firmware Version 1.0.7.9

- Statistics and alarm settings of the maximum number of concurrent calls on the trunk. [Enable Concurrent Call Alert] [Enable Concurrent Call Alert]
- Add ability to enable/disable Ring Group Voicemail and make Ring Group Voicemail have configurable voicemail prompts. [Voicemail]
- Add ability to import/export pickup groups and time settings. [PICKUP GROUPS]
- Add option to set a holiday as fixed. [Year]
- Support DOD digit manipulation based on extension. [Direct Outward Dialing (DOD)]
- Support to join the scheduled meeting 10 minutes in advance and is controlled by conference resources. [Meeting Schedule]
- Clean up the history of audio and video schedule meetings regularly. [Cleanup Type]
- Record the actual member information in the meeting history details. [Figure 151: Meeting details]
- Support to initiate a random meeting in a scheduled/instant-meeting room. [Meeting Schedule]
- The host password for the scheduled meeting is randomly generated. [Meeting Schedule]
- Add the "Download Client" link to the extension email template and add the Wave promotion guide in the setup wizard. [Email Templates] [Setup Wizard]
- Added support for Integrated Customer Service SDK. [Integrated Customer Service SDK]
- Support customer service system call (Click2Call) service provides SDK download for customers to integrate into the website and set up security defense Fail2ban. [Customer Service System Call Defense]
- Support to use Cloud IM service. [IM]
- Add email reminder configuration in the audio meeting room. [Email Reminder (m)]
- Added support for custom prompts under Voicemail Group. [Busy Prompt][Greet Prompt][Temporary Prompt][Unavailable Prompt]
- The dashboard shows eMMC lifetime and the number of public/random video meetings. [PBX Status]
- Added some System Alert Events. [Alert Events List]

Firmware Version 1.0.5.4

- Added support for v-Fax, Fax-sending, Email2Fax. [FAX SERVER]
- Added ability to restore backups remotely stored on GDMS [Restore Configuration from Backup File] 0
- Added support for STIR/SHAKEN. [SIP Settings/STIR/SHAKEN] [VoIP Trunk Configuration]
- Added ability to restrict calls and features based on CPU usage and data partition usage. [General Settings]
- Added NAT option to the Export File Data filtering option. [Export File Data]
- Wave desktop client is now supported. [Wave Desktop]
- Added support for IAX. [IAX SETTINGS] [EXTENSIONS] [VoIP Trunk Configuration]
- Improved audio and video conference pages. A list of the meetings that have not started and a meeting history list have been added. [Meeting Schedule] 0
- Support sending post-meeting reports to the host after scheduling a meeting. [Meeting Schedule]
- Added the SRTP Debugging option to the Ethernet Capture page. [Enable SRTP Debugging]
- Updated the System Cleanup/Reset page interface. [System Cleanup/Reset]
- Added manual cleaning. [Cleaner]
- Added ability to add a custom browser tab icon and custom logos on various pages of the web management portal and Wave Web portal. [UI Customization]
- Improved push notification for Wave mobile.
- Added Instant Messaging functionality to Wave Web. [Wave Web]
- LDAP phonebook information will now be synchronized when viewing the Contacts page. [Wave Web]
- UCM can now synchronize system event alerts to GDMS. [Plan Settings]
- Added threshold-based Call Control & Data Write Control. [General Settings] 0
- Added Layer 3 QoS for SIP and Layer 3 QoS for RTP options to global policy and relevant templates. [Layer 3 QoS For RTP] [Layer 3 QoS For SIP]
- Improved device list import support and added the ability to export devices on the ZeroConfig Device List page. [Managing Discovered Devices]

Firmware Version 1.0.3.10

- Added RemoteConnect Mode option in SIP trunk. [RemoteConnect Mode]
- Cloud Storage for CDR Backup and Record. [CDR in GDMS Cloud]
- Add support for IDS PMS interface. [IDS PMS]
- Add ability to enable PMS Wakeup call from remote extensions. [PMS Remote Wakeup Service] 0
- Add ability to configure local country code for an outbound route. [Local Country Code]
- Add support for Pattern and Leading digit filtering options in Callee Number. [Callee Number]
- Added description of SSH switch options in LCD menu. [Use the LCD Menu]
- Add the ability to import/export DOD. [Direct Outward Dialing (DOD)]
- Add the ability to enable auto record per inbound/outbound route. [Auto Record] [Auto Record]
- Add the ability to Enable Recording Whitelist. [Enable Recording Whitelist]
- Add the ability to select missed call type to be sent via email. [Missed Call Type]
- The Filter action is now supported in AMI sessions. [ASTERISK MANAGER INTERFACE]
- Added command to delete call recordings after downloading them. [recapi]

- Added commands to add, edit, and delete PIN groups. [addPinSets] [getPinSets] [updatePinSets] [deletePinSets]
- Added External Disk Status alert event for monitoring external storage connection status. [Alert Events List]
- The language of column titles in exported CDR reports and statistics reports will now be based on the UCM's display language. [Downloaded CDR File]
- Added Parking Lot Timeout Alert-Info option. This will add the specified alert-info header value to parking timeout callbacks. [Parking Lot Timeout Alert-Info]
- Updated HMobile check-in request format. [HMobile PMS Connector]
- Updated HMobile Mini Bar request. [HMobile PMS Connector]
- Added several updates to HSC PMS. [HSC PMS]
- Added the ability to specify the reason for agent pause (*83 by default). [Agent Pause]
- Added CDR Stored in GDMS Cloud option for RemoteConnect Plan Settings. [UCM RemoteConnect]
- GDMS Cloud Storage has been added as a recording storage location in the PBX. [PBX Settings/]
- After adding a UCM to GDMS, its RemoteConnect address will automatically be added as a SIP server to the GDMS account. [UCM RemoteConnect]
- Added the Ringback Tone option. Users can now select a custom prompt to play as a ringback tone for callers dialing in via the selected inbound route.
 [Ringback tone]
- Ring Group Voicemail can now be set as a routing destination and an IVR key press destination. [Default Destination]
- Added the following custom privileges: LDAP Server, UCM RemoteConnect, and Announcement. [Custom Privilege]
- Added a Forgot Password option to the Wave Web login page. [Wave Web]
- Added a new command to set the same-day wakeup service by dialing *36. [Wakeup Service]

Firmware Version 1.0.2.25

• This is the initial version.