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# **GRANDSTREAM Wave Web Client Application User Guide**

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## **GRANDSTREAM Wave Web Client Application**

### INTRODUCTION

### **OVERVIEW**

Wave web is a client application for the UCM63xx/Audio series IP PBX users to use web browser to participate in web video/audio conferences and make calls via WebRTC. With Wave web client, users can easily create, schedule, manage, and join video conference calls, share presentation, chat during conference calls, register UCM extension and make point-to-point calls. Wave web helps enterprise users to join meetings and communicate efficiently. It is an ideal product for enterprises looking for tools for users to communicate and work productively.

## **Feature Highlights**

- Supports Google Chrome v75+ and Mozilla Firefox v70+.
- Native integration with UCM including contacts and ability to display SIP users' online status.
- Supports LDAP to access contacts in the UCM LDAP server.
- Supports call display, voicemail, and call encryption.
- · Support synchronized multi-terminal call records.



- Supports call history.
- High quality point-to-point audio and video calling.
- Full integration with Grandstream UCM6300 IP PBX, including creation of QR code for automatic login, call transfer, call recording from server and etc. Supports Opus and G.722 for HD audio. Jitter resilience up to 50% audio packet loss and 20% video packet loss.
- Supports H.264.
- Supports joining meeting via link without logging in.
- Supports schedule meeting and meetings now at anywhere anytime.
- Built-in NAT traversal including automatic NAT discovery and TURN/ICE.
- Integrated UCM user portal entry to access personal data, follow me settings, SCA, wakeup calls etc.

## **Specifications**

Protocols/Standards	SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, DNS (A record, SRV, NAPTR), STUN/TURN/ICE, SIMPLE, LDAP, TLS, SRTP, IPv6
Voice Codecs and Capabilities	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,  NetEQ FEC 2.0, NACK Full-duplex speaker, AEC, AGC, Noise Reduction, PLC , Adaptive JIB
DTMF	In-audio, RFC2833, SIP INFO
Video Codecs and Capabilit ies	H.264, H.263, H.263+, VP8 1080P HD video supports displaying multiple videos, screen sharing, camera on/off, GS-Fec

Telephony Features	Call hold/unhold, mute/unmute, call transfer, audio meeting room, call history, s cheduling meeting, voicemail, call recording, etc. User portal entries allow acce ss to personal data, wakeup call settings, SCA, follow me settings, call queue, CDR, CRM user settings, etc.
relephony readures	
UCM Applications	Supports UCM feature codes (transfer, call park, recording, meeting control opt ions, etc.)
QoS	Layer 3 QoS (ToS, DiffServ, MPLS)
Security	SIP over TLS, SRTP (128-bit and 256-bit), HTTPS
Multi-language Support	English, Simplified Chinese, French, Spanish (Latin America), Spanish (Spain), Italian, Greek, Arabic, Russian, German, Polish, Portuguese and Vietnamese.
Login	Supports login with SIP extension and password. Supports joining meetings vi a link without logging in.
Upgrade	Wave Web client is built-in with UCM and upgrades via UCM.

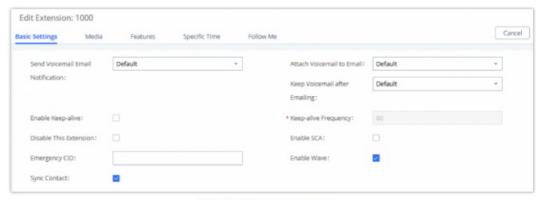
Please visit our website for more Wave web information and product documentation:

• <a href="http://www.grandstream.com">http://www.grandstream.com</a>

## **WAVE CONFIGURATION**

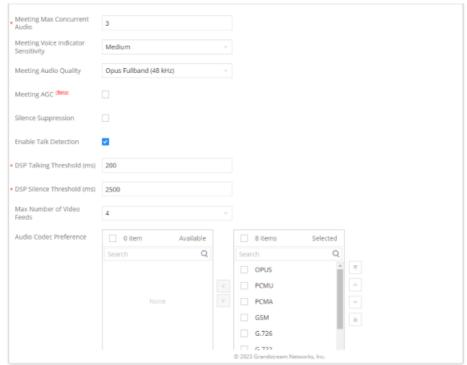
Grandstream Wave feature requires UCM WebRTC function which is build-in. To check and ensure that the UCM has WebRTC turned on, please make sure of the following:

1. Select the extensions that would use Wave Web and enable Wave on them under the Basic Settings section.



Wave Web Support for Extension

2. Also, the administrator can configure some global conference options like the maximum Concurrent Audio and Voice quality a conference can have by navigating to UCM web UI admin page? Call Features? Meeting Settings like shown in the figure below.



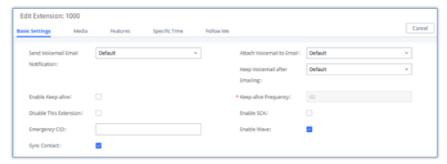
Global Conference Options

Meeting Voice Indicator Sensiti vity	sounds may still be heard even if the talking indicator does not show the source.  Configures the voice quality of audio conferences, two options are available
Conference Voice Quality	<ul> <li>OPUS Full band (48KHZ)</li> <li>OPUS Narrowband (8KHZ)</li> </ul>
Mosting ACC (bats)	Enabling this option will toggle on Automatic Gain Control for meeting audio . AGC is a system that dynamically reduces the variability of sound levels by adjusting high and low volumes based on the average or peak sound level. High volume sounds will be lowered, and low volume sounds will be booste d.
Meeting AGC (beta)	
Silence Suppression	Silence suppression for temporary accounts (e.g., meeting participants that joined the meeting via link). If enabled, the UCM will send CN packets for sil ence suppression after a successful CN negotiation in the SIP
	joined the meeting via link). If enabled, the UCM will send CN packets for sil

DSP Talking Threshold (ms)	The amount of time(ms) that sound exceeds what the DSP has established as the baseline for silence before a user is considered to be talking. This value affects several operations and should not be changed unless the impact on call quality is fully understood.
DSP Silence Threshold (ms)	The amount of time(ms) that sound falls within what the DSP has establishe d as the baseline for silence before a user is considered be silent. This value affects several operations and should not be changed unless the impact on call quality is fully understood.
Max Number of Video Feeds	Set the maximum number of video feeds supported per meeting room.
Audio Codec Preference	Configures the preferred codecs for temporary accounts such as meeting p articipants who joined via link.
Packet Loss Retransmission	Packet Loss Retransmission configuration for temporary accounts (meeting participants without registered extensions who entered the meeting via link)
	Select jitter buffer method for temporary accounts such as meeting participa nts who joined via link.
Jitter Buffer	<ul> <li>Disable: Jitter buffer will not be used.</li> <li>Fixed: Jitter buffer with a fixed size (equal to the value of "Jitter Buffer Size")</li> <li>Adaptive: Jitter buffer with a adaptive size that will not exceed the value of "Max Jitter Buffer").</li> </ul>
	NetEQ: Dynamic jitter buffer via NetEQ.

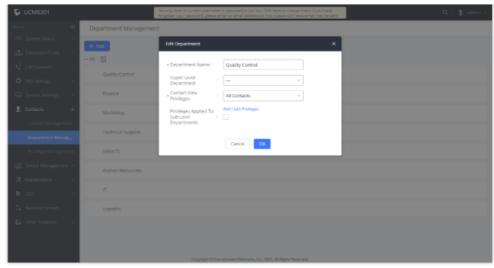
## **CONTACT MANAGEMENT**

When the "Sync Contact" is enabled, this extension will be displayed in the UCM and Wave contact list. If disabled, it will not be shown in the contact list, but Wave users will still be able to manually dial the extension number.



Extension Basic Settings

Currently, it is possible to manage which group of extensions otherwise known as Department can see which group from the Wave web. By default, you can either set to "see all" or "see department". The former allows all contacts to see all the other departments, while the latter allows contacts to see only the other contacts within the same groups. You can also set a custom privilege in case you want contacts in two or more departments to be able to see each other. E.g., Marketing department would have to be able to see Sales department.

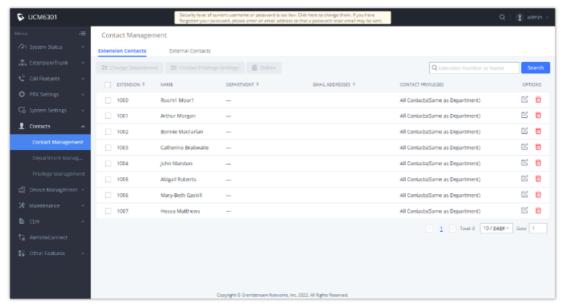


Adding/Editing Departments



Department Management

The Contact Management section will show each extension and the department it belongs to.

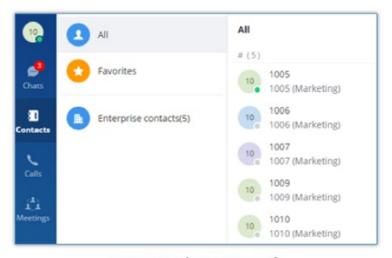


Contact Management Interface

On the Wave web interface, the contacts within the authority will be displayed on the Contacts section, as shown in the illustration below. Users can select All to display all available contacts, or Favorites to display favorites contacts only.

#### Note

The contacts displayed in the Grandstream Wave web portal contain UCM extensions (based on contact privilege settings), meeting room extensions, and LDAP contacts (based on the UCM's LDAP phonebook settings). (Refer to the UCM630x/A User Manual for more details)



Contacts Display on Wave Web

For more information regarding contact management for Wave, please refer to the UCM6300 User Manual, CONTACTS section.

## **MULTIMEDIA MEETING**

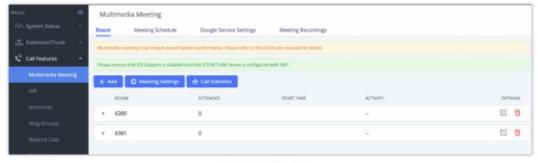
The UCM630X supports multimedia meeting rooms allowing multiple rooms used at the same time. The multimedia meeting room configurations can be accessed under Web GUI?Call Features? Multimedia Meeting. In this page, users could create, edit, view, invite, manage the participants, and delete multimedia 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.

UCM630x series	Number of public meeting rooms	Participant limit
UCM6301	4	75
UCM6302	8	150
UCM6304	15	200
UCM6308	25	300

Meeting room specifications affect user participation to a certain extent. The UCM supports the forecasting of meeting resources. There will be corresponding judgments and adjustments in the following scenarios:

- 1. When the conference resources are full, members of the scheduled conference room cannot join the conference in advance.
- 2. When conference resources are full, joining a conference is prohibited when a point-to-point call is transferred to a conference.
- 3. When the conference resources are full, when the IM group chat initiates a conference, it is forbidden to join the conference.
- 4. When the conference resources are full, when an instant conference is initiated, joining the conference is prohibited.
- 5. Close other instant conferences or scheduled conferences that have timed out to ensure that all invited members of the scheduled conference can enter the conference.
- 6. If the number of invited members in the ongoing conference exceeds the maximum number of resources in the conference, the invitation of members is not allowed to join the conference.
- 7. Turn on the flow control of video and presentation in the meeting room.Log in to the UCM Web GUI and open the Call Features? 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.

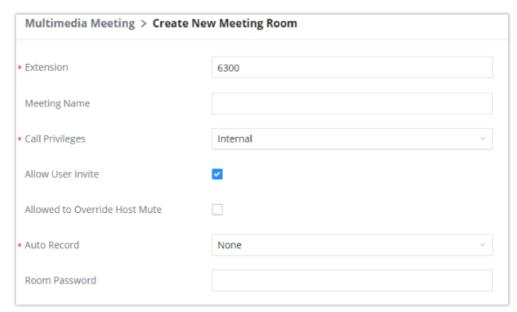


Multimedia Meeting

- Click on "+Add" to create a new audio conference room.
- to edit the audio conference room.
- Click on uto delete the audio conference room.

## **Creating Meeting Room**

Click on "+ Add" to create a new conference room. Users will be prompted to configure the following options for the audio conference room:



Meeting Room Parameters

Extension	The number to dial to reach the meeting room.
Meeting Name	Meeting Name
Privilege	Please select the permission for outgoing calls.
Allow User Invite	If enabled, participants will be able to invite other to the meeting by pressing 1 on t heir keypad or by clicking the Participants -> Invite option on the Wave bottom bar.
Allowed to Override Most Mute	Allowed to Override Host Mute

	Meeting audio and video can be automatically recorded. These reconrdings can be found under the Meeting Recording or Meeting Video Recordings Page.
	Record Audio: Record only the meeting Audio.
	<b>Record video</b> : Record the meeting audio and all video feeds. When there is a sha red source (shared screen/shared whiteboard/shared document) or focus, only the shared or focus screen is recorded, and when both are present, the shared screen will b recorded.
Auto Record	<b>Record video (Focus Mode)</b> : Record the focus screen and all audio of the meeting. When a shared source is present in the meeting, only the shared screen is recorded.
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 roo m.

## **Meeting Settings**

• Click on On the audio meeting room page to access and configure global settings for all audio meeting rooms. The configuration settings page contains the following options:

Meeting Max Concurrent Audio	Maximum number of partipants that can be heard simultaenously in multimedia m eetings. If the number of participants talking at any given point exceeds this value, the audio of the excess participants will not be heard.
Meeting Voice Indicator Sensitivity	Configures the sensitivity of the talking indicator in multimedia meetings. Setting th is higher will make the talking indicator appear more easily for lower volumes of au dio. Note: This does not adjust audio input sensitivity itself. Lower volumes of soun ds may still be heard even if the talking indicator does not show the source.
Meeting Audio Quality	Audio quality of multimedia meetings
Meeting AGC	Enabling this option will toggle on Automatic Gain Control for meeting audio. AGC is a system that dynamically reduces the variability of sound levels by adjusting high and low volumes based on the average or peak sound level. High volume sounds will be lowered, and low volume sounds will be boosted.

Enable Talk Detection	If enabled, the AMI will send the corresponding event when a user starts or stops t alking.
DSP Talking Threshold (ms)	The amount of time(ms) that sound exceeds what the DSP has established as the baseline for silence before a user is considered to be talking. This value affects several operations and should not be changed unless the impact on call quality is fully understood.
DSP Silence Threshold (ms)	The amount of time(ms) that sound falls within what the DSP has established as the baseline for silence before a user is considered be silent. This value affects seve ral operations and should not be changed unless the impact on call quality is fully understood.
Max Number of Video Fe eds	Set the maximum number of video feeds supported per meeting room.
Audio Codec Preference	Configures the preferred codecs for temporary accounts such as meeting participa nts who joined via link.
Packet Loss Retransmis sion	Packet Loss Retransmission configuration for temporary accounts (meeting partici pants without registered extensions who entered the meeting via link)
	Select the jitter buffer method for temporary accounts such as meeting participants who joined via link.
	<ul> <li>Disabled: Jitter buffer will not be used.</li> <li>Fixed: Jitter buffer with a fixed size (equal to the value of "Jitter Buffer Size")</li> <li>Adaptive: Jitter buffer with an adaptive size that will not exceed the value of "Ma</li> </ul>
Jitter Buffer	x Jitter Buffer").  • NetEQ: Dynamic jitter buffer via NetEQ.

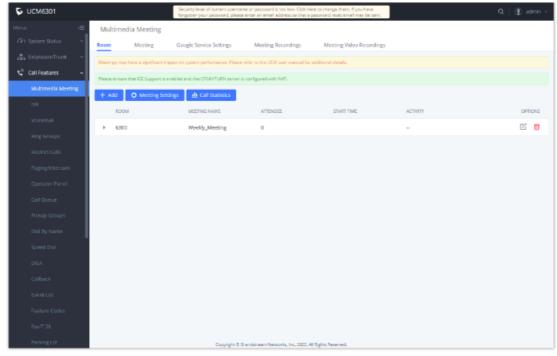
Multimedia Meeting > Meeting Settings				
* Meeting Max Concurrent Audio	3			
Meeting Voice Indicator Sensitivity	Medium	V		
Meeting Audio Quality	Opus Fullband (48 kHz)	¥		
Meeting AGC (Beta)				
Silence Suppression				
Enable Talk Detection				
DSP Talking Threshold (ms)	200			
* DSP Silence Threshold (ms)	2500			
Max Number of Video Feeds	4	~		
Audio Codec Preference	O item	Available	8 items	Selected
	Search	Q	Search	Q
			☐ OPUS	* × × × × × × × × × × × × × × × × × × ×
			PCMU	^
	None		PCMA	v
			GSM	业
			G.726	
			G.722	*
Packet Loss Retransmission	NACK+RTX(SSRC-GROUP)	V		
Jitter Buffer	NetEQ	V		

Meeting Settings

## **Managing Multimedia Meeting**

During the conference call, users can manage the conference from Web GUI after logging in as admin.

- Click on on the left of each conference room to expand the real-time participant list for the admin to view.
- Click on to remove selected participants from the conference.
- Click on to mute selected participants.
- Click on to unmute selected participants.
- Click on to invite contact group or remote conference room so multiple conference rooms that can be bridged.
- Click on to invite other users into the conference room.
  - This indicates the conference room is unlocked. Click on to lock conference. If the conference is locked, no new party can be invited or can jointhe conference.
  - This indicates the conference room is locked. Click on to unlock this conference room



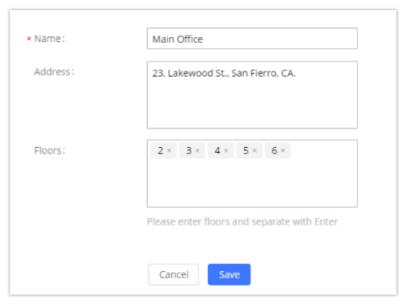
Ongoing Meeting with Participants

#### **ONSITE MEETING**

The UCM6300 Onsite Meeting feature allows the user to manage the meeting that take place in the office. This feature will make managing onsite meetings easier by informing the employees of the time, the room and the floor where the meeting is taking place. Using this feature will not only do what we have mentioned before, but also it will tell the user which rooms and facilities are able to be used and which are not. Therefore, onsite meetings will be much easier to manage, keep track of upcoming meetings, and check the meeting that had taken place already. In order to use this feature, please navigate to the Web GUI

- Other Features → Onsite Meeting
  - Address Management

First add the addresses of the office buildings to the Address Management by clicking on Add button.



Address Management

Fill in the needed information. For Floors, please add the number of floors that the building has. Press enter after

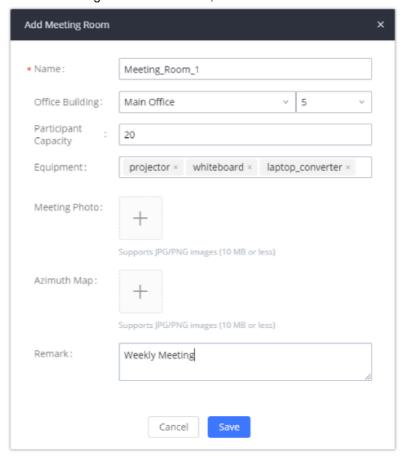
each floor number to add another floor.

## Equipment

In this section, you can add the equipment which are used in the meetings. To add equipment, click on Add then enter the name of the equipment, then click Save.

## Room Management

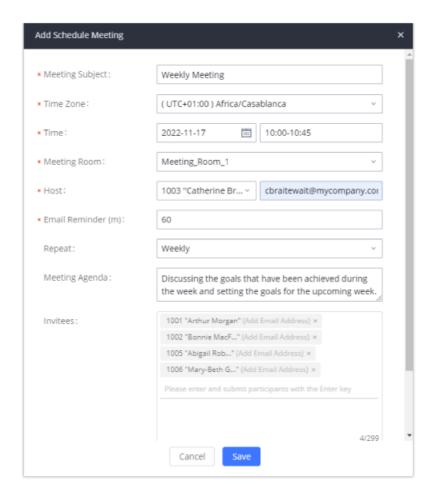
In this section, you can add the meeting rooms. To do that, click on Add.



Add Meeting Room

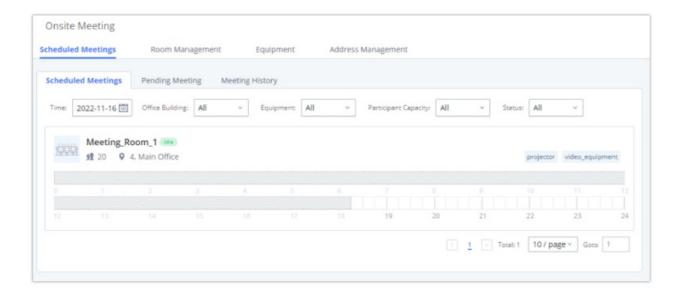
## **Scheduled Meeting**

In this section, you can see scheduled meetings, schedule a meeting, or see the history of the meetings that have taken place. To schedule an onsite meeting, please navigate to the Pending Meeting tab, then click on Schedule Meeting.



Fill in the needed information and set the parameters of your onsite meeting, then click on Save.

Then the scheduled meeting can be previewed in the Scheduled Meeting tab.

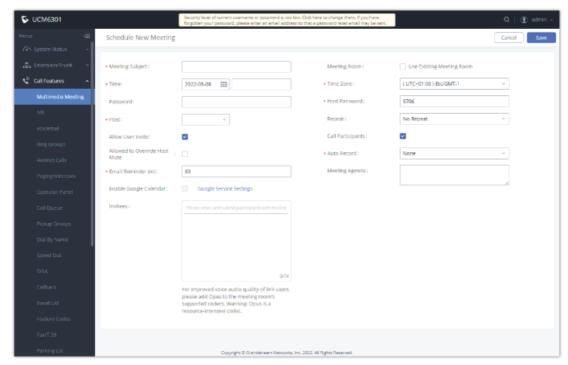


#### SCHEDULE A MEETING

UCM admin can log in UCM web UI to schedule a meeting. Log in to the UCM Web GUI, open the Call Features? Multimedia Meeting? Meeting Schedule page. Users can create, edit, view, and delete a meeting Schedule. 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 on "Schedule Meeting" to add a new Meeting Schedule.
  - Click on to edit a scheduled meeting.
  - Click on to view meeting schedule details.
  - Click on to delete the meeting schedule. Click the button, you can choose to delete the most recent meeting of the meeting room or delete the entire recurring meeting to delete the meeting room reservation.



Schedule meeting Interface

Schedule Options		
Meeting Subject	Configure the name of the scheduled conference. Letters, digits, Other special char acters 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.	

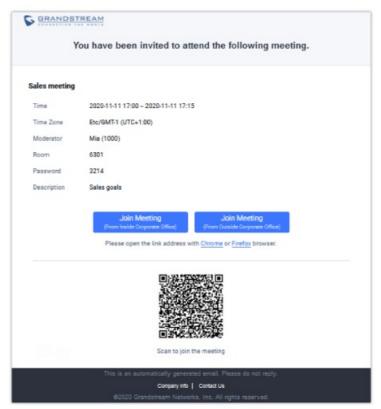
Host Password	Configure the Host Password.  Note: It is randomly generated when first creating a new meeting Schedule.
Host	Configure Host.
Repeat	Choose when to repeat a scheduled conference.

	<ul> <li>If this option is enabled, the user can:</li> <li>Press '0' to invite others to join the meeting with invited party's permission</li> <li>Press '1' to invite without invited party's permission</li> <li>Press '2' to create a multi-meeting room to another meeting room</li> </ul>
Allow User Invite	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 Ho st 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 ra nge is 5-1440. 60 is the default value. 0 indicates not to send out email reminders f or the meeting.  Note: After editing the time of a single recurrence of a scheduled meeting, a cancel ation 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. Plea se refer to section [Google Service Settings Support].

Meeting Agenda	Enter information about the meeting, e.g., the purpose of the meeting or the subject s that will be discussed in the meeting.
Invitees	Local extensions, remote extensions, and special extensions are supported.

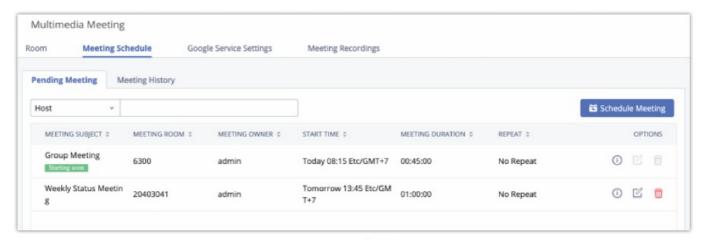
Once created, the Web GUI will display scheduled meetings under Unstarted Meeting, After scheduling the meeting, an email reminder will be sent to the participants at the configured email reminder time. The email reminder will include the meeting details and a link to the meeting. Upon clicking the link, participants will be prompted to enter their Grandstream Wave portal passwords to log in and join the meeting.

Note When there is participant in the meeting, the meeting room configuration cannot be modified.



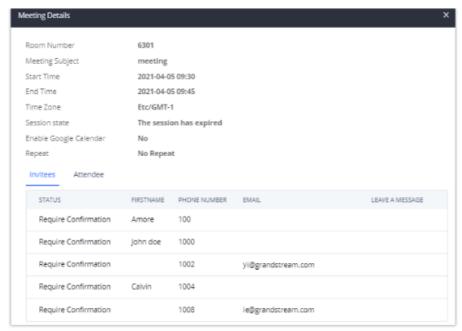
Email Reminder for the Scheduled Meeting

If meeting schedule information has been modified, participants will receive email update immediately. To join meeting, the Wave user can click on the link in the email notification to join meeting directly, or Wave mobile app user can scan the QR code in theemail notification to join meeting as well. Once the Meeting Schedule is configured, scheduled meeting will be displayed as below figure.



Meetings Schedule

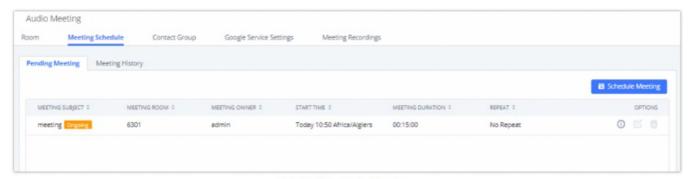
• Click the button to view the meeting details in the Meeting room. The meeting details of Meeting History include actual participant information. When there is participant in the meeting, the meeting room configuration cannot be modified.



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 the conference. Once the meeting starts, it will be displayed under Pending Meeting with an "Ongoing" status, as displayed below:



Meeting Scheduled - Ongoing

Once the conference is finished, the conference will be displayed under Historical meeting as below:



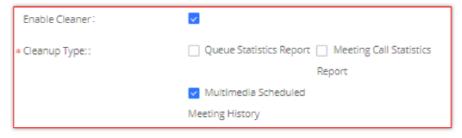
Meeting Schedule - Completed

- Click the button to download the Meeting Report of the meeting.
- Click the button to reschedule the Meeting.

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.

### Note

Please make sure that outbound route is properly configured for remote extensions to join the meeting. The users can Clean up the history of audio and video and schedule meeting regularly.



Scheduled cleanup for multimedia meeting history

### **OPERATOR PANEL**

UCM supports the addition and configuration of the call console, which can realize one or more extensions as administrators to manage PBX activities, such as extension status, call queue status, call transfer, call monitoring, call hangup, etc. Grandstream Wave displays the status information of the extension, ring group, voice mailbox, call queue, and parking space managed by the current extension. This chapter mainly introduces the configuration method of Call Features? Operator Panel.

The call console can be set through Call Features? Operator Panel.



Operator Panel Interface

The steps to configure the call console are as follows:

- Click the "Add" button to add the call console.
- Click the button to edit the call console.
- Click the button to delete the call console.

Please refer to the following for the description of the specific configuration items of the Operator Panel:

Name	The Operator panel name.
Administrator	The operator of the call console can select extensions, extension groups, and de partments. 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 ch oose extensions, extension groups, and departments. For the selected extension groups and departments, subsequent extensions will be automatically supervised by the administrator.

Ring Groups	The checked Ring Groups will be supervised by the administrator. Select "All", all Ring Groups and subsequent updates will be automatically supervised by the administrator.
Voicemail Groups	The checked Call Queue will be supervised by the administrator. Select "All", all Call Queue and subsequent updates will be automatically supervised by the administrator.
Call Queue	The checked Call Queue will be supervised by the administrator. Select "All", all Call Queue and subsequent updates will be automatically supervised by the administrator.
Parking Lot	The checked Parking Lot will be supervised by the administrator. Select "All", all Parking Lot and subsequent updates will be automatically supervised by the administrator.

### **MONITOR**

This feature allows the user to retrieve the video feed of the monitoring devices that he/she has permission to user. These devices and permissions are handled by the UCM. To know how to configure these devices on the UCM side, please refer to this guide below:

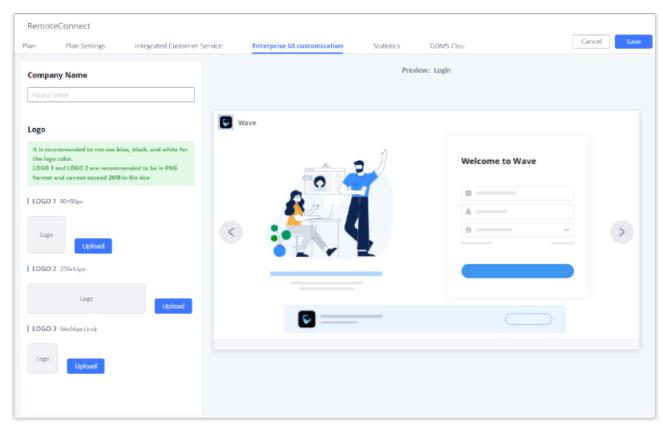
UCM63XX Device Management

#### **ENTERPRISE UI CUSTOMIZATION**

UCM needs to connect to GDMS, so an open beta plan package for RemoteConnect will be assigned to it to start with. On the UCM Web UI ? UCM RemoteConnect ? 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 company's logo, and the pictures are in different formats and sizes according to the logo position, which are LOGO1 80\*80px, LOGO2 256\*256px, LOGO3 64\*64px (only "ico" format is supported), these logos will be displayed on the "UCM management platform/login", "Reset Password", "Email Template", "Wave\_PC", "Wave Login", "Browser Label", "Guide Page" interface preview. Once done, the administrator can log in to the UCM management platform and customize the Wave LOGO, please refer to the UCM RemoteConnect user guide for details:

#### **UCM RemoteConnect User Guide**

After customizing the logo, all Logos on the Wave page are displayed as customized Logos.



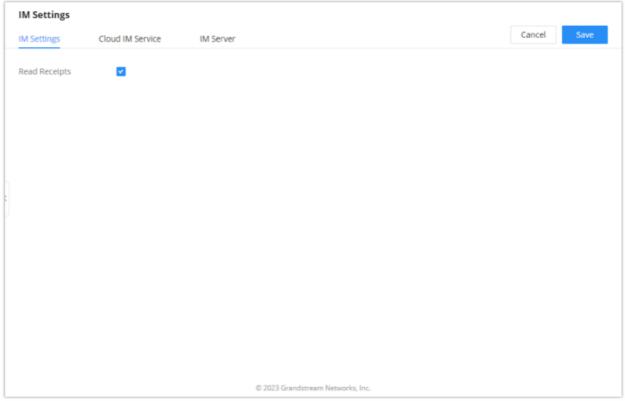
Company Brand Customization Interface

## **IM Settings**

Under System Settings ? IM Settings, the user can enable or disable whether to show a read receipt to the message sender when the recipient reads the message.

### Note

Please note that disabling read receipt will also disable the indication if a message has been delivered.

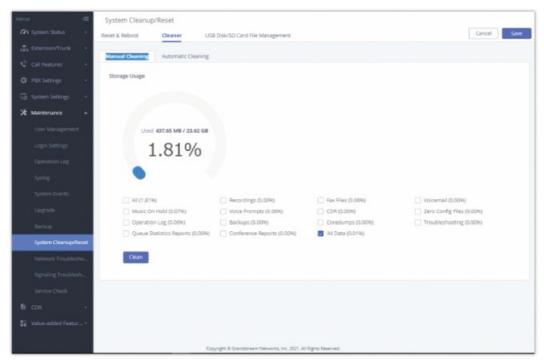


Enable/Disable Read Receipt

### **IM DATA CLEANING**

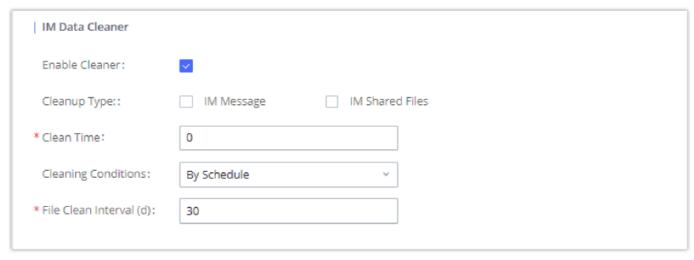
Administrators are able to clean the Instance message data generated during chat discussions using Wave web and in order to do that, please navigate the UCM630x web interface and go under Maintenance? System Cleanup/Reset? Cleaner.

It can either be done manually under Manual Cleaning as shown below:



Manual IM Data cleaning

Alternatively, it can be done automatically by configuring IM Data Cleaner as shown below:



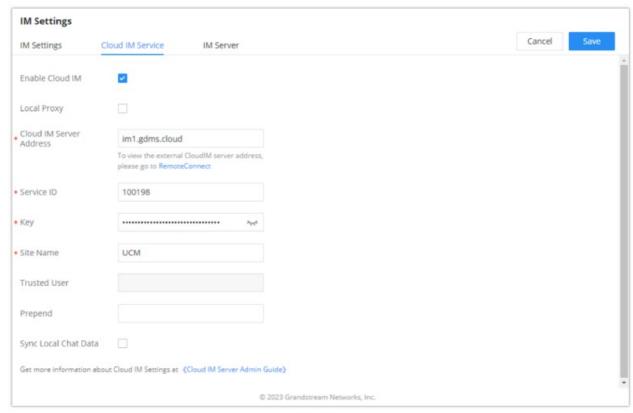
Automatic IM Data Cleaner

Enable Cleaner	Enable the IM Data Cleaner function.
Cleanup Type	Choose the cleanup type; either IM message or IM shared files or both.
Clean Time	Enter the hour of the day to start the cleaning. The valid range is 0-23.
Cleaning Conditions	<ul> <li>By Schedule: If the clean interval is 3, cleaning will be performed every 3 d ays to delete all files.</li> <li>By Threshold: Check at the configured cleaning time every day to see if the storage threshold has been exceeded and perform cleaning of all files if it has.</li> <li>Keep Last X Days: Delete all files older than X days.</li> </ul>

Enter 1-30 to specify the day of the month to clean up the files.
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## **CLOUD IM**

When enabling the Cloud IM, all IM data in Grandstream Wave is stored in the external server Cloud IM, it is no longer stored in the UCM. The GDMS can configure CloudIM service for UCM devices. At this time, the UCM device synchronizes the configuration item information.



Cloud IM

Cloud IM Service	
Enable Cloud IM	If you have purchased the UCM Cloud IM package or purchased the Grandstre am IM server, you can configure it. If you have not purchased it, the configurati on will not take effect, but UCM local IM service is allowed. Please note that aft er 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.

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.
	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
	• All
	Last 12 Months  Last C Months
	<ul><li>Last 6 Months</li><li>Last 3 Months</li></ul>
	Last Month
	– Data Type
Sync Local Chat Data	IM Data
	• Images
	• Files

## Note

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.

### **CHANGE LOG**

## Firmware 1.0.21.9

Added support for enabling and disabling read receipt for Wave instant messaging. [IM Settings]

#### Firmware 1.0.17.7

Added the Allowed to override Host Mute option to the Edit Meeting / Schedule Meeting pages → Advanced Settings page. If enabled, participants muted by the meeting host will be able to unmute themselves. [Schedule a Meeting]

#### Firmware 1.0.15.7

No major change was added.

#### Firmware 1.0.13.6

- · Made several UI improvements.
- Added Portuguese and Vietnamese language support. [Table 1: Wave Web Specifications]
- Added support to set permissions in the UCM admin to allow Wave users to view the specific contacts.
   [CONTACTS MANAGEMENT]

#### Firmware 1.0.11.8

- Added support for Operator Panel. [Operator Panel]
- Support multi-terminal synchronization of call records. [call records]
- Grandstream Wave step update (only manual update, no functional configuration).
- [Wave Web] Merged audio conference and video conference to Conference module. [MULTIMEDIA MEETING]

## Firmware 1.0.9.10

- Added support for deleting the most recent meeting of the recurring scheduled meeting and the entire recurring meeting. [SCHEDULE A MEETING]
- Added support for UI customization. [UI CUSTOMIZATION]

## Firmware 1.0.7.12

Added support for email reminder when editing the time of a scheduled meeting. [Email Reminder]

## **Firmware 1.0.7.9**

- Video/Audio meeting room cancel the host password and meeting password. [Creating Meeting Room]
- Add email reminder configuration in meeting room. [Figure 9: Email Reminder for the Scheduled Meeting]
- · Record the actual member information in the historical schedule meeting details. [Figure 13: Meeting Schedule
- Completed] Clean up the history of audio and video schedule meeting regularly. [Figure 14: Scheduled cleanup for
- multimedia meeting history] Added support to use Cloud IM service. [CLOUD IM]
- Support to join the schedule meeting 10 minutes in advance and affected by meeting management.
   [SCHEDULE A MEETING]

#### **Firmware 1.0.5.4**

- Added Historical Meetings for Conference Schedule. [Figure 13: Meeting Schedule Completed]
- Added post-meeting report email reminder. [Email Reminder]
- Improve meeting room specifications. [MULTIMEDIA MEETING]
- Added ability to customize LOGO. [UI CUSTOMIZATION]
- Added the ability to clean IM Data. [IM DATA CLEANING]

#### Firmware 1.0.3.10

No major changes.

### Firmware 1.0.2.25

This is the initial version.

## **Documents / Resources**



<u>GRANDSTREAM Wave Web Client Application</u> [pdf] User Guide UCM63xx, Audio series, Wave Web Client Application, Wave Web, Client Application

Manuals+,