

# UCM Series IP PBX Firmware Release Notes

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# FIRMWARE VERSION 1.0.17.8

## PRODUCT NAME

UCM6301, UCM6302, UCM6304, UCM6308, UCM6300A, UCM6302A, UCM6304A, UCM6308A

## DATE

08/25/2022

## FIRMWARE FILE INFORMATION

- UCM6301/6302 firmware file name: ucm6301\_ucm6302fw.bin  
MD5: 8d48e31f650d0e6cf5da113f555d8baf
- UCM6304/6308 firmware file name: ucm6304\_ucm6308fw.bin  
MD5: fce133d56337326970d7987135f8000b
- UCM6300A/6302A firmware file name: ucm6300A\_ucm6302Afw.bin  
MD5: ad13d1cd8b22436e111550e105ceef62
- UCM6304A firmware file name: ucm6304Afw.bin  
MD5: ddf191fe448c6bfeb4747b0faac814
- UCM6304/6308 firmware file name: ucm6308Afw.bin  
MD5: 61510f97c6306bb98e267618eb83ad30

## IMPORTANT UPGRADING NOTE

- **ALWAYS create a backup of your configuration and data before a firmware upgrade.**
- **After upgrading to 1.0.2.18 or higher, you will no longer be able to downgrade to 1.0.2.17 or lower.**
- **If the device is on a firmware version lower than 1.0.2.15, please upgrade to 1.0.2.15/16/17 first and then to the latest version.**
  - **UCM6301/2:** [http://firmware.grandstream.com/Release\\_UCM6301\\_6302\\_1.0.2.17.zip](http://firmware.grandstream.com/Release_UCM6301_6302_1.0.2.17.zip)
  - **UCM6304/8:** [http://firmware.grandstream.com/Release\\_UCM6304\\_6308\\_1.0.2.17.zip](http://firmware.grandstream.com/Release_UCM6304_6308_1.0.2.17.zip)
- **For UCM6304A on firmware version lower than 1.0.9.10, please upgrade to 1.0.9.10 first before upgrading to 1.0.11.10. UCM6304A firmware 1.0.9.10 can be downloaded here:**  
[https://firmware.grandstream.com/Release\\_UCM6304A\\_1.0.9.10.zip](https://firmware.grandstream.com/Release_UCM6304A_1.0.9.10.zip)
- **If the device is on a firmware version lower than 1.0.7.x, please upgrade to 1.0.9.x first before upgrading to 1.0.15.x.**

- **UCM6301/2:** [http://firmware.grandstream.com/Release\\_UCM6301\\_6302\\_1.0.9.10.zip](http://firmware.grandstream.com/Release_UCM6301_6302_1.0.9.10.zip)
  - **UCM6304/8:** [http://firmware.grandstream.com/Release\\_UCM6304\\_6308\\_1.0.9.10.zip](http://firmware.grandstream.com/Release_UCM6304_6308_1.0.9.10.zip)
  - **UCM6300A/6302A:** [http://firmware.grandstream.com/Release\\_UCM6300A\\_6302A\\_1.0.9.10.zip](http://firmware.grandstream.com/Release_UCM6300A_6302A_1.0.9.10.zip)
  - **UCM6304A:** [http://firmware.grandstream.com/Release\\_UCM6304A\\_1.0.9.10.zip](http://firmware.grandstream.com/Release_UCM6304A_1.0.9.10.zip)
  - **UCM6308A:** [http://firmware.grandstream.com/Release\\_UCM6308A\\_1.0.9.10.zip](http://firmware.grandstream.com/Release_UCM6308A_1.0.9.10.zip)
- **It is recommended to upgrade UCM to latest firmware for improved product lifespan and security.**

## CHANGES SINCE FIRMWARE VERSION 1.0.15.13

### ENHANCEMENTS

- **[System]** Updated python version to 3.8 and related processes.
- **[System]** Improved speed of applying changes
- **[System]** Updated lighttpd version to 1.4.61.
- **[Contacts]** The Privilege Name field now supports parenthesis ().
- **[Contacts]** The Contacts page has been moved to its own category in the sidebar.
- **[CRM]** Added <https://www.zohoapis.in> option to CRM Server Address list.
- **[Device Management]** Added *Channel Path* option for accessing specific IP camera channels via URL.
- **[Email Settings]** Improved alert email sending process.
- **[Email Settings]** Updated Remote Registration email template.
- **[Emergency Calls]** Emergency calls will no longer be restricted by the RemoteConnect call limit.
- **[Extension]** The default highest priority codec is now G.722.
- **[Feature Codes]** Added *Remote Extension Privilege Update* feature code and *Remote Extension Privilege Update Whitelist* field to allow specified users to remotely change extensions' privileges.
- **[File Manager]** Automatic file migration after file storage path failure to the next storage location in the storage priority path.
- **[File Manager]** Users can now customize the storage path priority for recordings, video recordings, and IM files. [CUSTOM STORAGE PATH PRIORITY]
- **[FXO/FXS]** FXO FSK CID detection now uses spandsp.
- **[GDMS]** If SIP extensions synced from UCMs are deleted on GDMS, they will no longer be synced again.
- **[HA]** 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.
- **[HTTPS API]** Added support for configuring inbound route blacklist via HTTPS API. [HTTPS API INBOUND ROUTE BLACKLIST COMMANDS]
- **[IVR]** If dialing into a Dial by Name directory, the call will end automatically after failing 3 times.
- **[LDAP]** Added *Server Type* option to the LDAP Server→LDAP Phonebook→Phonebook Download Configurations page. Users can select between LDAP and Active Directory.
- **[LDAP]** Added Department field to LDAP phonebook contacts.
- **[LDAP]** Added meeting room extensions to LDAP phonebooks.
- **[LDAP]** External Contacts created from the Contacts page will now be added to the system's internal LDAP phonebook.

- **[Maintenance]** Added *Remote Login* tab to the Maintenance→Login Settings page. [TRUSTED LOGIN LOCATIONS]
- **[Meetings]** Created new *Meetings Settings* page under the *Multimedia Meetings* page and moved several meeting-related options to it. [MEETING SETTINGS]
- **[Meetings]** Regular meeting participants can now invite other members to join the meeting by dialing 1 if "Allow User Invite" is enabled.
- **[Meetings]** Meetings will become "Pending" after rescheduling.
- **[Meeting]** Pending meetings are now sorted by start time by default.
- **[Meetings]** 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.
- **[Meetings]** If there is only 1 participant left in the meeting room, after 30 minutes, a prompt will appear saying the meeting will end soon. The participant can press 1 to extend the meeting for another 30 minutes. Otherwise, the meeting will automatically end after 5 minutes.
- **[OpenVPN]** Added support for user authentication
- **[Operation Log]** Operation Log entries will now contain the IP address and location information from which the operation originated.
- **[PMS]** Added option *Automatically Clear Wakeup Calls* for deleting scheduled wakeup calls after either guest check-in and check-out.
- **[PMS]** 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. [STREAMLINED PMS ROOM STATUS UPDATE]
- **[Recordings]** 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.
- **[RemoteConnect]** Added ability to batch delete cloud storage files.
- **[RemoteConnect]** If IP endpoints cannot connect to the GDMS TURN server via UDP, UCM will use TCP to connect them.
- **[SIP Settings]** Added *Trunk Registration Period (s)* option to SIP Settings->Misc. [TRUNK REGISTRATION PERIOD]
- **[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.
- **[SIP Settings]** Added CEI msid for audio calls.
- **[SIP Settings]** Added trickle-ice param to SIP OPTION's 200 OK.
- **[SIP Settings]** Added FECC support for UCM A series
- **[SIP Settings]** profile-level-id will be added to 200 OK when receiving INVITEs without SDP.
- **[Speed Dial]** Added ability to import/export speed dials.
- **[System Events]** Improved processes to avoid duplicate alerts for the following events: Registered SIP Trunk failed, Local Disk Usage and External Disk Usage.
- **[User Management]** Separated *Allow Deletion of CDR and Recordings* option to *Allow Deletion of CDR* and *Allow Deletion of CDR Recordings*.

- **[User Portal]** Added the Call Waiting option to the User Portal.
- **[Voicemail]** 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.
- **[VoIP Trunks]** Added Line Selection Strategy option for Trunk Groups. [TRUNK GROUP LINE SELECTION]
- **[VoIP Trunks]** Changed register trunk *Username* field name to *Trunk Registration Number*.
- **[Wave]** Meeting participants will no longer receive meeting start notifications if they are already in the meeting waiting room.
- **[Wave]** IPC devices are now sorted by Name.
- **[Wave Web/Desktop]** Added meeting layout mode selection in the Wave meeting UI by clicking on the *More* button in the bottom bar and change to either *Speaker Layout* or *Tile Layout*.
- **[Web]** General web UI improvements
- **[Web]** Added Help option under the username dropdown menu that will redirect to the UCM6300 Series FAQ.
- **[Web]** Updated some tooltips.
- **[Web]** Optimized search functionality
- **[Zero Config]** Added GMT+2:00 (Israel) option to Time Zone drop down list in all Zero Config pages.
- **[ZeroConfig]** Added support for WP22 and WP825 model templates.

## BUG FIXES

- **[System]**
  - Fixed several crashing issues.
  - Fixed an issue with abnormal CPU usage.
  - Fixed several system stability issues.
- **[Active Calls]**
  - Fixed several display issues.
  - Fixed an issue with call barging via the Active Calls page.
- **[AMI]**
  - Fixed an issue with not automatically disconnecting AMI users after deleting them during an active AMI session.
- **[Analog Trunks]**
  - Fixed an issue with failing to edit an analog trunk after enabling SLA mode.
- **[Basic Calls]**
  - Fixed an issue with no outbound audio on calls.
  - Fixed several issues with calls involving GVC3210.
  - Fixed an issue with attended transfers and N-way conferencing to SCA extensions.
  - Fixed an issue where callers cannot hear ringback tone when Ignore 180 Response is enabled under certain cases.
  - Fixed an issue where if an extension's CFB is set to itself, and calls to it are hung up twice, calls will no longer enter voicemail.
- **[Backup/Restore]**

- Fixed an issue with restoring backups converted from UCM6510 backup files.
  - Fixed an issue with where users created after enabling Cloud IM would not be able to log in.
  - Fixed an issue where users would not be able to back up to local storage after backing up to external storage and removing it.
  - Fixed an issue with Data Sync not working properly under certain cases.
- **[BLF]**
  - Fixed an issue with incorrect BLF remote party ID after an attended transfer.
- **[CDR]**
  - Fixed several display issues.
- **[Call Flip]**
  - Fixed an issue with abnormal calls after taking over a held call from a trunk.
  - Fixed an issue with not auto canceling holds after taking over a held call with an SCA extension.
  - Fixed an issue with viewing screen share after taking over a call.
  - Fixed an issue with incorrect CID display after taking over a call over a register trunk.
  - Fixed an issue with incorrect meeting duration display after a call flip.
  - Fixed an issue with creating recordings after a call flip.
  - Fixed an issue where call flips cause CID to be displayed as Anonymous.
- **[Contacts]**
  - Fixed an issue with syncing extension department information.
  - Fixed an issue with displaying the incorrect number of contacts synced from other UCMs.
  - Fixed an issue where contact viewing privileges are abnormal after disabling Cloud IM.
  - Fixed an issue where contact department is abnormal after disabling IM Server mode.
  - Fixed an issue with desynced contacts on Wave Web if the extension disabled Sync Contact.
- **[DOD]**
  - Fixed an issue with configuring DOD when adding LDAP phonebook members.
- **[Email Settings]**
  - Fixed an issue where the email subject of SLA alert emails will be emptied after restoring default template.
  - Fixed a misspelling in the Meeting Reminder email template.
- **[Emergency Calling]**
  - Fixed an issue playing the recording prompt tone when making an emergency call via an extension registered via RemoteConnect.
- **[Extensions]**
  - Fixed an issue with calling into extension voicemail after deleting its SLA station.
  - Fixed an issue with IP phone registrations displaying as Wave registrations.
  - Fixed an issue where imported FXS and IAX extensions are not displayed after importing.
  - Fixed an issue with deleting SIP extensions if extension number exceed 18 characters.
- **[Fax]**
  - Fixed an issue with fax detection on inbound faxes to IVR.
- **[Feature Codes]**
  - Fixed an issue with one-way audio after a seamless transfer.

- Fixed an issue with displaying the wrong remote party ID when using the Pickup Extension feature code to pick up calls from register trunks.
- **[File Management]**
  - Fixed an issue with being unable to download network captures saved in external storage.
  - Fixed an issue with external storage capacity being occupied abnormally.
  - Fixed an issue with displaying files on external storage under certain cases.
- **[GDMS]**
  - Fixed an issue with incorrect time format display on GDMS after changing to dd-mm-yyyy format.
- **[HA]**
  - Fixed an issue with resuming calls created via call forwarding.
  - Fixed an issue with abnormal IM files after an HA failover.
  - Fixed an issue where outbound routes are not synced properly to the standby UCM.
  - Fixed an issue with abnormal IM files after an HA failover.
  - Fixed an issue with abnormal system rebooting after an HA switch.
- **[IAX]**
  - Fixed an issue with no voice prompts on callback calls.
- **[IVR]**
  - Fixed an issue with calls not being routed properly with certain time conditions.
  - Fixed an issue with not being able to hang up calls after dialing the same extension via IVR multiple times.
  - Fixed an issue with callers hearing two error prompts if an extension rejects the call.
  - Fixed an issue with IVR voice prompts being played twice.
  - Fixed an issue with unresponsive web page after configuring IVR Blacklist/Whitelist.
  - Fixed an issue with being unable to add/edit IVR extensions.
- **[Jitter Buffer]**
  - Fixed an issue with abnormal calls if both FEC and jitter buffer are enabled.
- **[LDAP]**
  - Fixed an issue with the LDAP server configuration page's save prompt.
- **[Meetings]**
  - Fixed an issue with meetings ending automatically.
  - Fixed an issue with meeting statistics if a participant joins and rejoins a meeting several times.
  - Fixed an issue with inconsistent display of participant information when inviting members via keypress.
  - Fixed an issue with call statistics when invited external contacts reject meeting invites.
  - Fixed an issue with incorrect start times displaying in the Meeting History page.
  - Fixed an issue with the meeting participant list not displaying participants that were not initially invited.
  - Fixed an issue with the meeting list not updating properly after a meeting ends.
  - Fixed an issue with the meeting history details displaying the incorrect host.
  - Fixed an issue with not being able to download and play meeting recordings after changing the storage path.

- Fixed an issue with abnormal meetings if two meetings are scheduled immediately one after the other.
- Fixed an issue with ending meetings after inviting members via keypress.
- Fixed an issue with uploading certain files.
- Fixed an issue with incorrect real-ext information in the CEI Notify message.
- Regular meeting participants can now invite other members to join the meeting by dialing 1 if "Allow User Invite" is enabled.
- Fixed an issue with focus screen still being recorded after changing the focus to a participant without video.
- **[Network Settings]**
  - Fixed an issue with multicast static routing to the WAN interface.
  - Fixed an issue with sending unregister messages after changes in the network environment.
- **[PMS]**
  - Fixed an issue with local LDAP phonebook not being updated after guest check-in.
- **[Queue]**
  - Fixed an issue with terminating calls for both parties if a call is hung up during the Agent ID announcement.
  - Fixed an issue with the "Data update failed" error appearing when there is only 1 SLA alert email recipient.
  - Fixed an issue with wrapup times being ignored.
  - Fixed an issue with dynamic agent login/logout times changing after a system reboot.
- **[Recordings]**
  - Fixed an issue with the display of recordings when the call involves blind transferring.
  - Fixed an issue with not storing IM data in external USB storage.
  - Fixed an issue with recording voice prompts being stuck.
- **[RemoteConnect]**
  - Fixed an issue with not being able to access the RemoteConnect plan after restoring a backup.
  - Fixed an issue where call duration limits carry over to the next day if the UCM is powered off for a day.
- **[RTP Settings]**
  - Fixed an issue with incorrect number of ICE candidates being collected after modifying the TURN server connection protocol.
- **[SIP Settings]**
  - Fixed an issue with incorrect expire values in the 200 OK when Max Registration/Subscription Time are set to certain values.
  - Fixed an issue where an incoming SIP trunk's call's diversion header is not passed through.
- **[SNMP]**
  - Fixed an issue when setting a community as public.
- **[Speed Dial]**
  - Fixed an issue with the incorrect remote party ID being displayed to the caller when dialing in via DISA and then dialing out through register trunk.



- **[STIR/SHAKEN]**
  - Fixed an issue with outbound calls failing after updating the certificate files.
- **[System Events]**
  - Fixed an issue with the concurrent call threshold alert not being generated.
  - Fixed an issue with generating external disk usage alerts after rebooting.
  - Fixed an issue where the Register SIP trunk failed alert would be continuously generated after the Heartbeat Detection period is reached.
  - Fixed an issue with NAS disk usage alert events being generated even if NAS is disabled.
  - Fixed an issue where the system reboot time in the alert event does not match the system time.
  - Fixed an issue with User Login Banned alerts not being generated if the "Maximum number of login attempts" is set to 1.
  - Fixed an issue where the system reboot time in the alert event does not match the system time.
  - Fixed an issue with generating incorrect alerts after a call flip.
  - Fixed an issue with repeating trunk outbound call duration alerts after a system reboot.
  - Fixed an issue with external disk usage threshold recovery alerts not being generated.
  - Fixed an issue with incorrect system event information after changing the super admin password.
  - Fixed an issue with the resource usage HTTP notifications being incorrect.
  - Fixed an issue the sending an incorrect response to invalid requests.
- **[User Management]**
  - Fixed an issue with custom privilege users with the Multimedia Meeting privilege not being able to access the Multimedia Meeting page when the UCM is on IM Server mode.
  - Fixed an issue with the Admin user not being able to enable Passwordless Remote Access.
- **[VoIP Trunks]**
  - Fixed an issue with a "failed to update data" error prompt after entering an invalid concurrent call threshold value.
  - Fixed an issue with inbound calls via peer trunks with RemoteConnect addresses.
  - Fixed an issue with occasional trunk group call failure.
  - Fixed an issue with incorrect Trunk Group status.
  - Fixed an issue with abnormal prompt tones after callback is triggered.
  - Fixed an issue where the INVITE FROM header would use sips when the trunk is configured to use TLS and has TEL URI enabled.
  - Fixed additional issues with the trunk username being displayed instead of the callee ID.
- **[Wave]**
  - Fixed an issue with an error message appearing when creating an instant meeting immediately after ending a scheduled meeting.
  - Fixed several issues with displaying recordings on Wave.
  - Fixed an issue with Wave Web video calling when using Firefox version 97.0.1.
  - Fixed an issue with incorrect callee information after an attended transfer.
  - Fixed an issue where recordings could be deleted regardless of user privilege.
- **[Wave Android]**
  - Fixed an issue with incorrect call history display.

- **[Wave Desktop]**
  - Fixed an issue with logging out after upgrading UCMs in an HA environment.
- **[Web]**
  - Fixed several display issues.
  - Fixed web page navigation issues with custom privilege users.
  - Fixed an issue with the Sort button in the meeting history page not working.
  - Fixed an issue with logging out after clicking on the RemoteConnect search result entry when searching.
  - Fixed an issue with voice prompts being interrupted or silenced after clicking "Apply Changes".
  - Fixed an issue with customer privilege users not being able to dismiss RemoteConnect plan expiration messages.
- **[WebRTC Trunk]**
  - Fixed an issue with not being able to update WebRTC trunks if the current RemoteConnect plan URL contains hyphen (-).
  - Removed non-working codecs from the WebRTC trunk codec list except for H.264.
- **[Zero Config]**
  - Fixed an issue with the GRP260xP and GRP260xW images.
  - Fixed an issue with importing Zero Config model templates that are modified and saved in Microsoft Excel.

#### NEW LIMITATIONS

- **[Contacts]** Increased the maximum limit of department management groups from 50 to 100.
- **[Meetings]** If the meeting has Auto Record configured, the meeting host would not be able to manually start/stop recordings during the meeting.
- **[Ring Group]** Ring group members can no longer cancel auto recording during calls.
- **[Routing]** Outbound route CID name now supports spaces.

#### KNOWN ISSUES

- **[WebRTC Trunks]** H.264 is a non-working codec.

## NEW FEATURES OVERVIEW

This section describes the major new features/changes introduced in the update and provides instructions for usage.

### CUSTOM STORAGE PATH PRIORITY

Users can now customize the storage path priority for recordings, video recordings, and IM files.

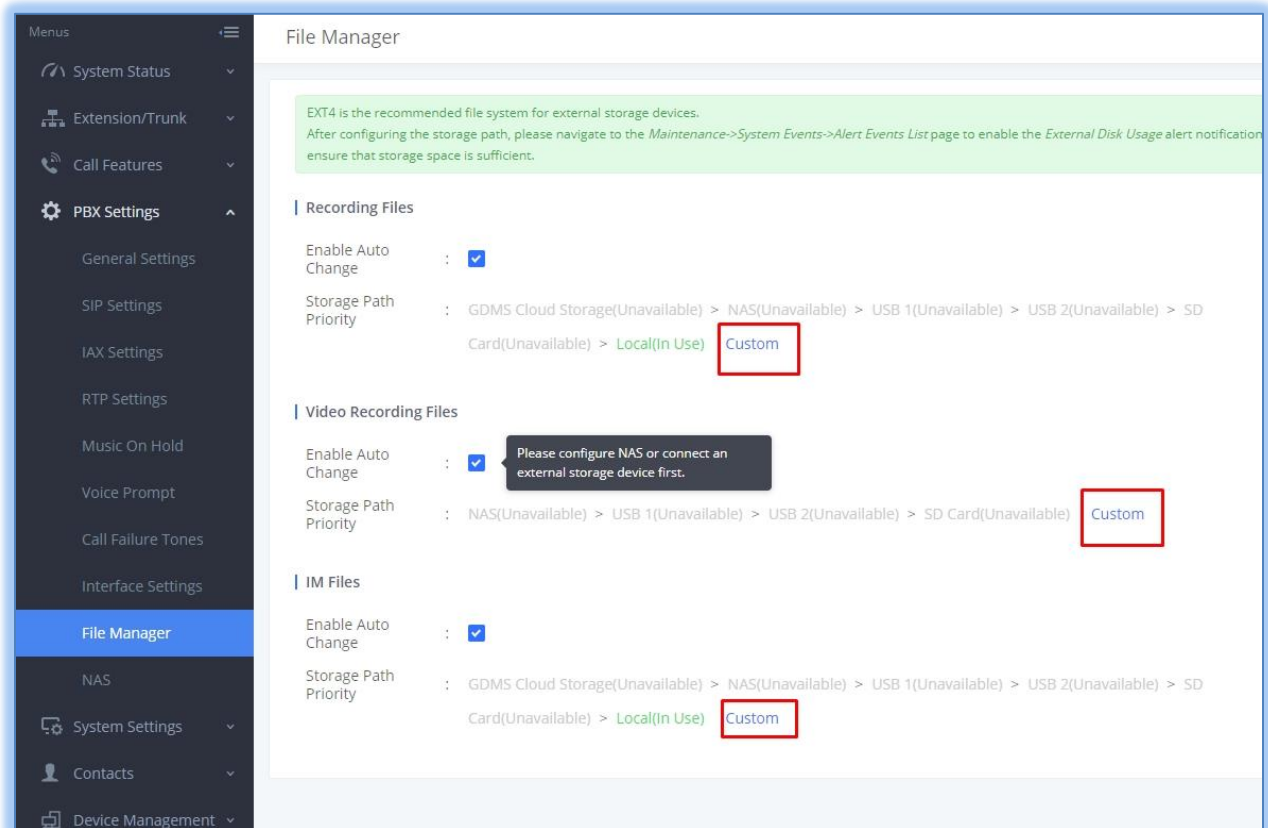


Figure 1 - File Manager

Users can view the current priority of storage locations for different file types in the *File Manager* page. This priority will determine which storage paths the UCM will fall back to in the scenario that the currently used storage fails and how the automatic file migration path will look like. Clicking on the *Custom* button will bring up a window where users can customize this priority.

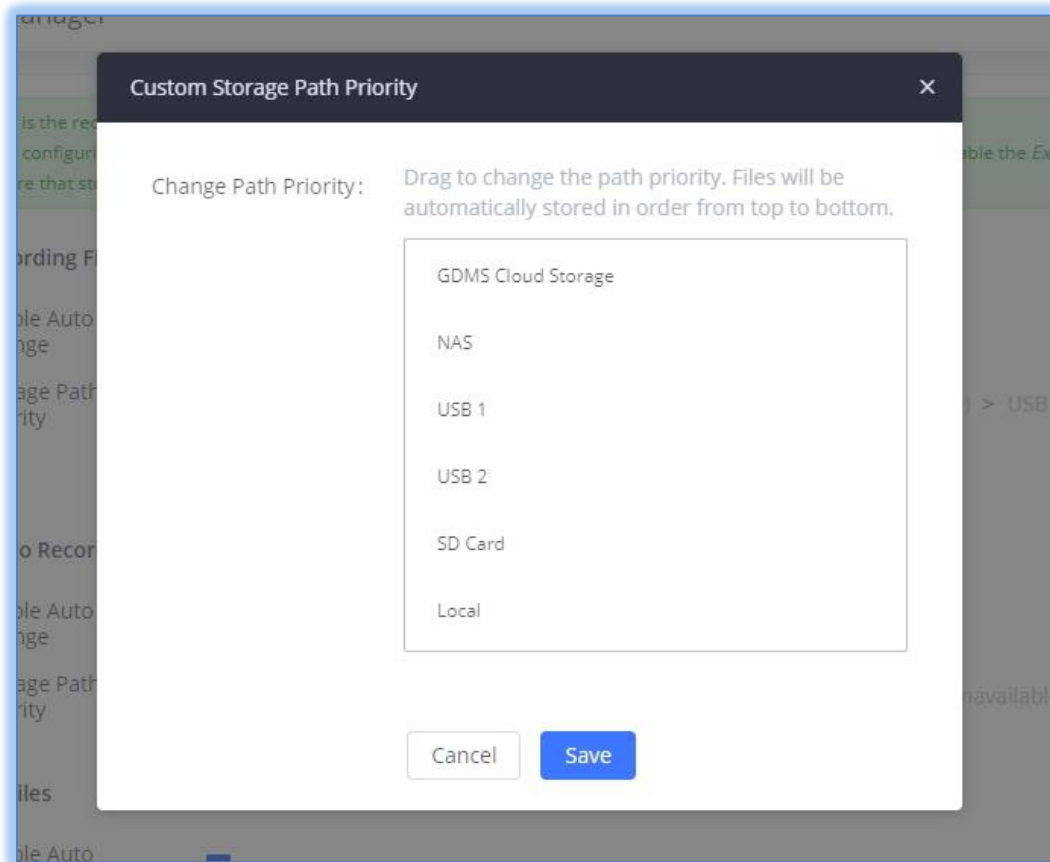


Figure 2 - Customize Storage Path Priority

## HTTPS API INBOUND ROUTE BLACKLIST COMMANDS

HTTPS API now supports the ability to add and edit inbound route blacklist entries. The following commands are now available:

- addInboundBlacklist
- updateInboundBlacklist
- getInboundBlacklistSettings
- updateInboundBlacklistSettings

Please see the official UCM6300 Series HTTPS API documentation [here](#) for details on usage.

## TRUSTED LOGIN LOCATIONS

When the UCM is accessed for the first time from a new regional location, a remote login alert will be generated, and the new location will be automatically added to the *Other Login Locations* list. Locations are determined via

the IP address from where the login originated. Items in the *Other Login Locations* list can be added to the *Trusted Login Locations* list.

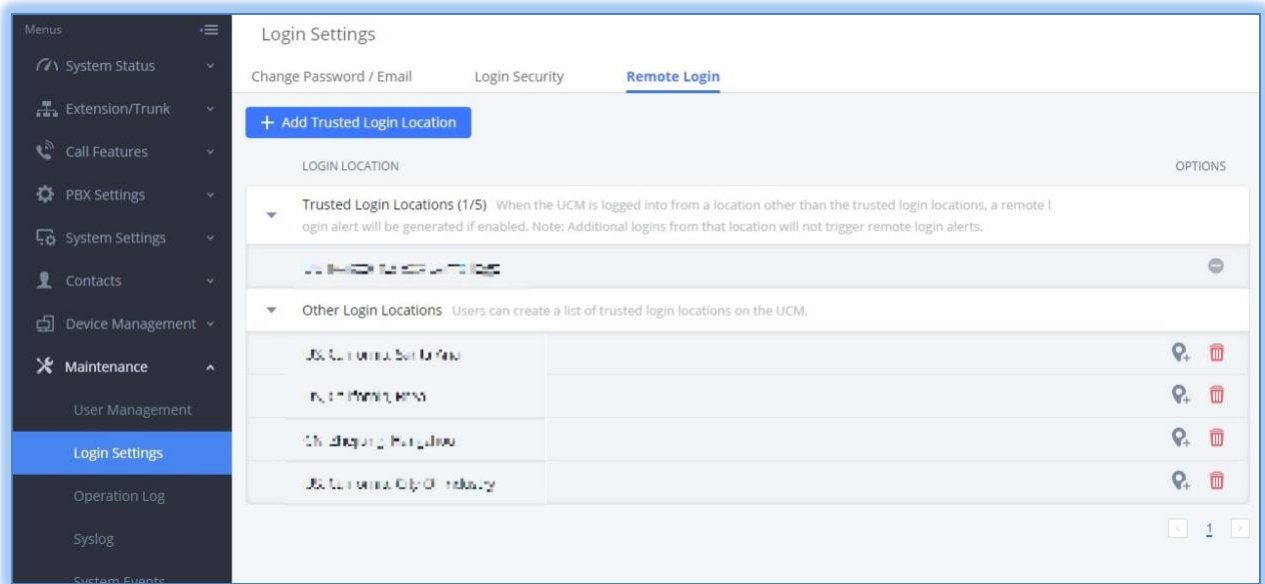


Figure 3 - Remote Login

Additionally, users can also manually detect their own location and add it to the *Trusted Login Location* list.

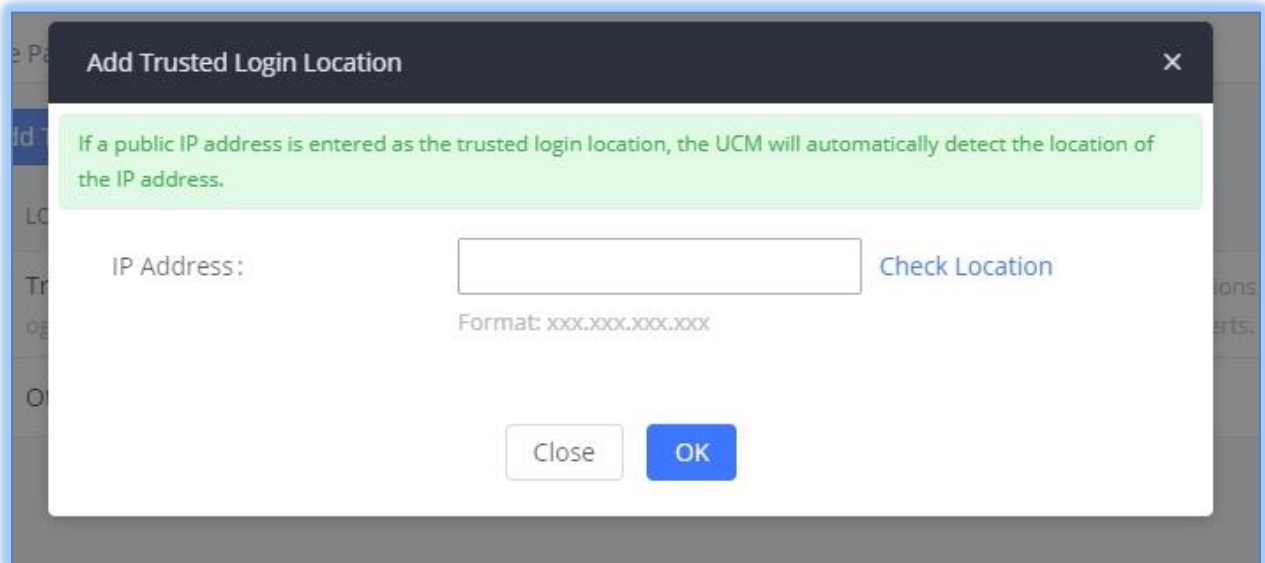


Figure 4 - Add Trusted Login Location

### Remote Login Alert Scenarios

Remote login alerts will be generated in the following scenarios.

- The UCM is accessed for the first time from a new regional location.
- The UCM is accessed from areas in the *Other Login Locations* list **if** the previous login was from a different location. For example, Login#1 is from Los Angeles and Login#2 is from New York, both of which have already been added to the *Other Login Locations* list. If the previous login was from Los Angeles, the next login from Los Angeles will not generate a remote login alert. However, if the next login is from New York instead, a remote login alert will be generated. Likewise, if the next login after this is from Los Angeles, a remote login alert will be generated again.

## MEETING SETTINGS

Several meeting-related options have been relocated to a dedicated **Meeting Settings** page under *Call Features* → *Multimedia Meeting*.

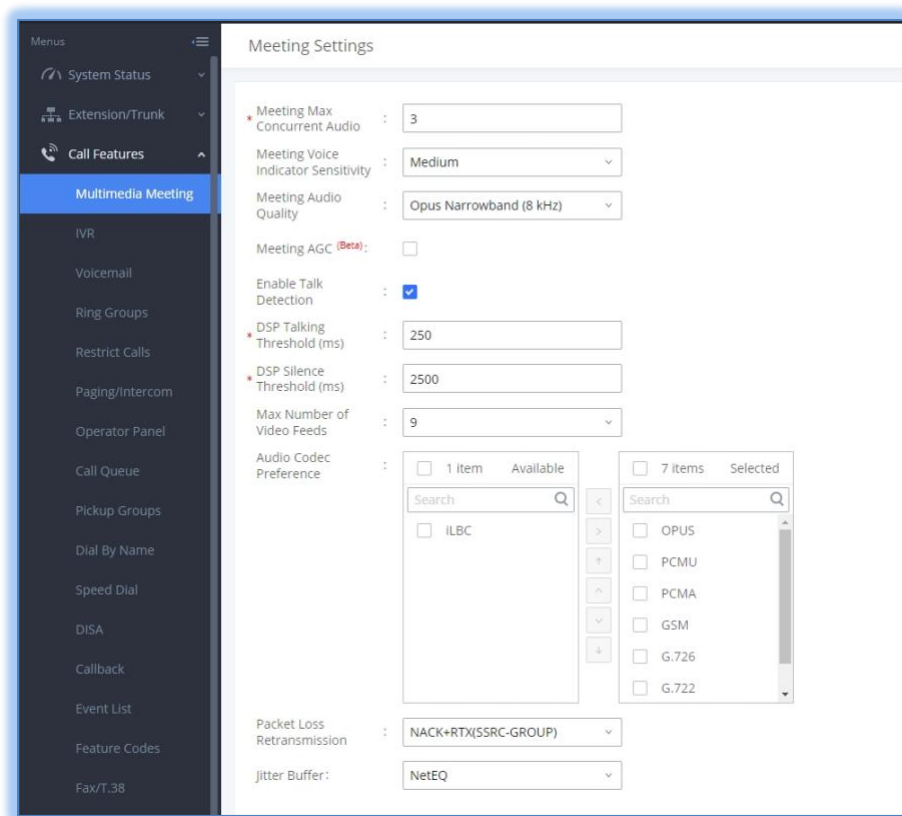


Figure 5 - Meeting Settings

## STREAMLINED PMS ROOM STATUS UPDATE

In addition to the current method of updating room status, users can now also update room status quickly without going through the system prompts by dialing all related codes at once separated by asterisk (\*). For example, if a

maid has maid code 0001, and the *Update PMS Room Status* feature code is \*23, users can dial \*23\*0001\*1 to directly change room status to *Available* (the assigned room status for key press 1).

### TRUNK REGISTRATION PERIOD

Users can now configure a registration period within which to send initial registration request to trunks. Instead of sending all registration requests immediately, this spreads out the registration requests throughout the configured time window.

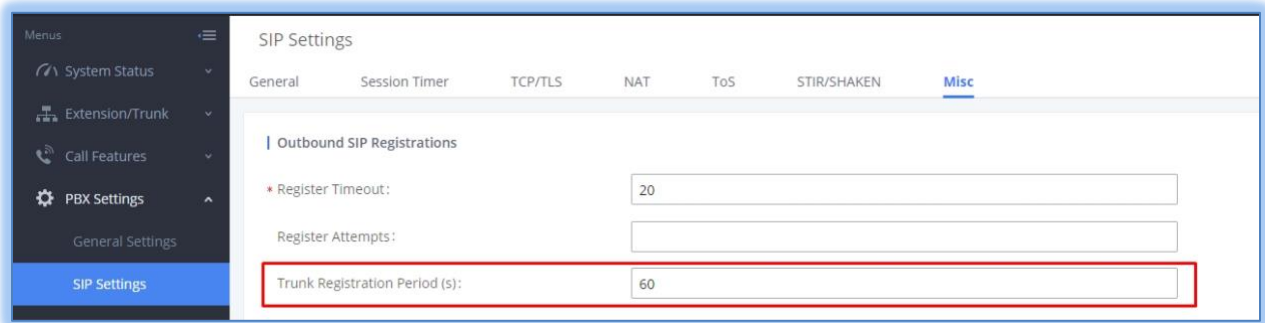


Figure 6 - Trunk Registration Period

### TRUNK GROUP LINE SELECTION

Users can now select the order in which trunk user lines are selected to be used for outgoing calls. This will give users the option to spread their line usage across accounts. Two options are available: *Linear* and *Round Robin*.

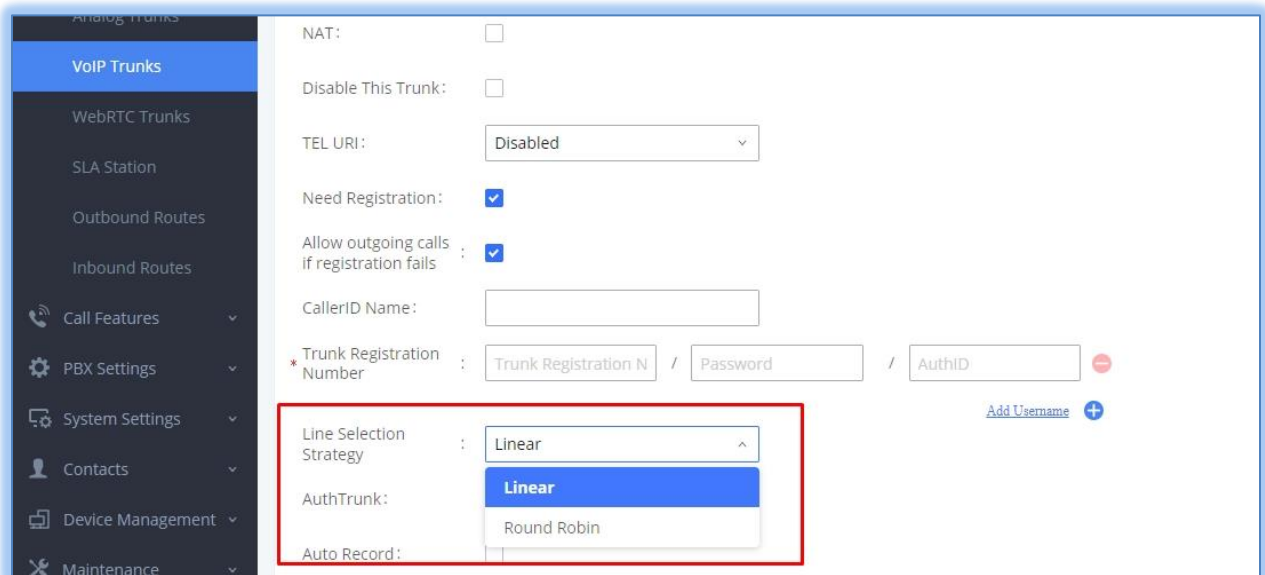


Figure 7 - Trunk Group Line Selection

- **Linear:** Use lines in the list order for outbound calls.

- **Round Robin:** Use lines based on rotary line selection for outbound calls. Previously used lines will be remembered until each line has been used, and the next rotation of lines will begin.