UCM Series IP PBX Firmware Release Notes

Table of Content

FIRMWARE VERSION 1.0.15.13

PRODUCT NAME

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

DATE

06/13/2022

FIRMWARE FILE INFORMATION

- UCM6301/6302 firmware file name: ucm6301_ucm6302fw.bin

  MD5: 7533c325a6408be7c8dd01ad4f91fd2a

- UCM6304/6308 firmware file name: ucm6304_ucm6308fw.bin

  MD5: 4cf7b7c862809fad827a48046a173275

- UCM6300A/6302A firmware file name: ucm6300A_ucm6302Afw.bin

  MD5: 13ceb55cb0b0d52d82d5f5c44de773a3

- UCM6304A firmware file name: ucm6304Afw.bin

  MD5: fe538f9ad8ee6ac894087841bf56d463

- UCM6304/6308 firmware file name: ucm6308Afw.bin

  MD5: 85831553a4cea8cc746ec0cf7d3cd8ff

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
    - **UCM6304/8:** 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

- **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.**
  - o **UCM6301/2:** http://firmware.grandstream.com/Release_UCM6301_6302_1.0.9.10.zip
  - o **UCM6304/8:** http://firmware.grandstream.com/Release_UCM6304_6308_1.0.9.10.zip
  - o **UCM6300A/6302A:** http://firmware.grandstream.com/Release_UCM6300A_6302A_1.0.9.10.zip
  - o **UCM6304A:** http://firmware.grandstream.com/Release_UCM6304A_1.0.9.10.zip
  - o **UCM6308A:** 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 1.0.15.10

BUG FIXES

- **[System]** Fixed several crashing issues.
- **[Basic Calls]** Fixed an issue with no outbound audio on calls.
- **[Emergency Calling]** Fixed an issue where the ELIN would not be used in the From header when calling out from register trunks.
- **[Maintenance]** Fixed an issue with saving packet captures to external storage.
- **[OpenVPN]** Fixed an issue where the UCM would not be able to connect to push routes sent from the OpenVPN server.
- **[Queue]** Fixed an issue with system process freezing when blind transferring.
- **[Recording]** Fixed an issue with recording storage path changing to local storage after inserting an SD card.
- **[RemoteConnect]** Fixed an issue with "Call Failed" errors when calling other UCMRC extensions.
- **[VoIP Trunks]** Fixed additional issues with trunks becoming unreachable after applying changes.
- **[VoIP Trunks]** Fixed an issue with trunk usernames appearing as the CID on outbound register trunk calls.
- **[Zero Config]** Fixed an issue with provisioning all selected devices when the device list page is displaying 250 items.
- **[Zero Config]** Fixed an issue with FXS extensions not appearing when configuring extension board settings on some model templates.
- **[Zero Config]** Fixed an issue with not being able to provision FXS 2 port settings.

FIRMWARE VERSION 1.0.15.10

PRODUCT NAME

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

DATE

04/15/2022

FIRMWARE FILE INFORMATION

- UCM6301/6302 firmware file name: ucm6301_ucm6302fw.bin

  MD5: dcf7397c236a60b12c4ee09c7c0e0f14

- UCM6304/6308 firmware file name: ucm6304_ucm6308fw.bin

  MD5: de834dacd6bc1454a5f47510c5d03a05

- UCM6300A/6302A firmware file name: ucm6300A_ucm6302Afw.bin

  MD5: 9fa05c6f354c07efb9526990e86e2c7b

- UCM6304A firmware file name: ucm6304Afw.bin

  MD5: de64e4660f13544e77ed24c0ca5bc13d

- UCM6304/6308 firmware file name: ucm6308Afw.bin

  MD5: 191e6d41ce1c096e24520672c57e653b

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
    - **UCM6304/8:** 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
- **It is recommended to upgrade UCM to latest firmware for improved product lifespan and security.**

CHANGES SINCE FIRMWARE VERSION 1.0.15.7

BUG FIXES

- **[Basic Calls]** Fixed an issue with abnormal ringback tone.
- **[CRM]** Fixed an issue with triggering excessive API calls to Vtiger CRM in short periods of time.
- **[System Events]** Fixed an issue with repeatedly generating Ping/SYN flood alerts.
- **[VoIP Trunks]** Fixed an issue where trunks become unreachable after applying changes.
- **[Zero Config]** Fixed an issue where existing model templates are deleted after downloading model template updates.

FIRMWARE VERSION 1.0.15.7

PRODUCT NAME

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

DATE

04/01/2022

FIRMWARE FILE INFORMATION

- UCM6301/6302 firmware file name: ucm6301_ucm6302fw.bin

  MD5: 5f12daa7e9ac4cfb2000aa32c6e4de6c

- UCM6304/6308 firmware file name: ucm6304_ucm6308fw.bin

  MD5: b098fa892af2fe1795c4e7661126f427

- UCM6300A/6302A firmware file name: ucm6300A_ucm6302Afw.bin

  MD5: f9e2245f30752f22a9f2618b0ef11796

- UCM6304A firmware file name: ucm6304Afw.bin

  MD5: 08cc7f19ea4639a59eebcffce73f0b4d

- UCM6304/6308 firmware file name: ucm6308Afw.bin

  MD5: 47f916c7df78762debcb591b8bd81f12

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.**
  - o **UCM6301/2:** http://firmware.grandstream.com/Release_UCM6301_6302_1.0.2.17.zip
  - o **UCM6304/8:** 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
- **It is recommended to upgrade UCM to latest firmware for improved product lifespan and security.**

CHANGES SINCE FIRMWARE VERSION 1.0.13.9

ENHANCEMENTS

- [Security] Added RFC 7714 support (AES-GCM Authenticated Encryption).

- [Security] Added notification upon login to inform the user of the last remote login.

- [Security] Added the following alerts to the *Alert Events List*:

    o   Remote Login

    o   Flood Attacks (SIP, SYN, and ping) [FLOOD ATTACK PROTECTION]

    o   Network Traffic Storm

    o   Excessive Outbound Calls

    o   Trunk Outbound Call Duration Usage

- [System] EXT4 is now the recommended file system format for external storage instead of NTFS. Note: NTFS is still supported.

- [System] Made several system optimizations.

- [AMI] Added support for AMI *talk* and *hold* actions. These actions will send a Notify message to the IP endpoint. The *talk* action can now be used to unhold calls in addition to answer calls. The *hold* action can be used to hold calls.

- [Backup/Restore] Data Sync now supports the following key exchange algorithms:

    o   diffie-hellman-group1-sha1

    o   diffie-hellman-group14-sha256

    o   diffie-hellman-group16-sha512

    o   diffie-hellman-group18-sha512

    o   diffie-hellman-group-exchange-sha1

    o   diffie-hellman-group-exchange-sha256

    o   ecdh-sha2-nistp256

    o   ecdh-sha2-nistp384

- o ecdh-sha2-nistp521

- o curve25519-sha256

- o curve25519-sha256@libssh.org

- o sntrup4591761x25519-sha512@tinyssh.org

- [Contacts] Added Privilege information to the *Contacts* overview page.

- [Email Settings] Added *Wave Welcome* and *Remote Registration* email templates.

- [Email Settings] Emergency call emails will now contain the caller's extension name alongside its number.

- [Email Settings] Updated the *Email Notification* process for sending extension information to extensions.

- [Email Settings] Updated email template for meeting invitation emails.

- [Extensions] Resetting an extension will now delete all IM-related data for that extension.

- [Extensions] Added *Outgoing Call Frequency Limit* option to the *Edit Extension→Features* page to limit the extension from making excessive outgoing calls under a specified time window. [EXTENSION OUTGOING CALL FREQUENCY LIMIT]

- [Extensions] Added a *SRTP Crypto Suite* option to the *Edit Extension→Media* page to allow users to select and prioritize the SRTP encryption algorithms offered in outgoing calls. [EXTENSION/TRUNK SRTP CRYPTO SUITE]

- [Extensions] Added details to the pop-up that appears when resetting extensions to clarify what settings will be reset.

- [Extensions] Added a *Wave* tab for all Wave-related configurations such as enabling/disabling Wave for the extension and the login QR code for the Wave mobile app.

- [File Manager] Added support for storing local IM data in GDMS cloud storage.

- [GDMS] Added processes to avoid duplicate SIP servers on GDMS for the same UCM.

- [HTTPS API] The HTTPS API can now make calls to external numbers.

- [Jitter Buffer] Optimized processes to avoid silence caused by excessive delay from jitter buffer.

- [Meetings] Added *Record Video* and *Record Screen Share Only* beta options to the *Auto Record* dropdown list in Meeting Room settings and Schedule Meeting settings. [MEETING AUTO RECORDINGS (BETA)]

- [Meetings] Added *Meeting Name* field to meeting room settings.

- [Meetings] Remote server meeting participants invited via the Meeting Assistant or emails will now show their real extension number and profile information during meetings if applicable. CEI Notify will now contain a real-ext field with that information.

- [Meetings] Added support for playback of meeting audio recordings on the *Meeting Recordings* page.

- [Meetings] A voice prompt will now play when enabling auto record for existing meeting participants and for participants that join the meeting.

- [Meetings] The *Meeting Schedule* tab has been renamed to *Meeting* and now displays all upcoming and past meetings.

- [Meetings] Only scheduled meetings will have meeting reports available for download.

- [Meetings] Meeting history can now be filtered. Up to 3 months of meetings can be filtered.

- [Network Settings] Added *Network Port Traffic Control* tab to the *Network Settings→Basic Settings* page to allow the UCM to generate alerts when a specified rate of incoming network traffic is detected. [NETWORK PORT TRAFFIC CONTROL]

- [Queue] Added *Agent ID Announcement* option to the *Edit Queue→Advanced Settings→Announcement Settings* page for announcing the agent extension that will be connected to the caller.

- [Queue] Added *Service Level Agreement (SLA)* option to the *Edit Queue→Advanced Settings* page for determining the queue responsiveness. [QUEUE SERVICE LEVEL AGREEMENT (SLA)]

- [RemoteConnect] Separated *UCM Public Address* field into *Wave RemoteConnect Address* and *IP Endpoint/Trunk RemoteConnect Address* fields to clarify the appropriate server address to use for different endpoints.

- [RemoteConnect] Added a *RemoteConnect Configuration Help* link to the *RemoteConnect→Plan* page to help users configure endpoints for RemoteConnect connection.

- [RemoteConnect] Added *GDMS Cloud Storage Space* tab to the *RemoteConnect* page to show the used/available cloud storage space on GDMS and the files on there.

- [RemoteConnect] Added support for the RemoteConnect plan-based registration limits and call duration limits (per call and cumulative).

- [RemoteConnect] Added a refresh button next to the plan subscription tier info so the UCM can reacquire plan information from GDMS.

- [SIP Settings] UCM will now pass through anonymous headers from endpoints

- [SNMP] Added SNMP support. [SNMP SUPPORT]

- [STIR/SHAKEN] Updated STIR/SHAKEN functionality for Asterisk 18.

- [STIR/SHAKEN] Users can now select whether to apply STIR/SHAKEN to incoming calls, outgoing calls, or both.

- [RTP Settings] Added *Number of ICE Candidates* option to the *RTP Settings* page to allow the configuration of the number of ICE candidates to gather and send to remote peers.

- [RTP Settings] If a STUN server is configured in the *RTP Settings* page while the RemoteConnect STUN server is also used, the RemoteConnect STUN server will now be preferred.

- [RTP Settings] Optimized STUN/TURN related processes.

- [Time Settings] Users can now specify a time for holidays under the *Edit Holiday→Show Advanced Options* page.

- [Voicemail] Users can now upload a No Answer prompt for ring timeout scenarios from the User portal->Personal Data->Voicmeail page.

- [VoIP Trunks] Added a *SRTP Crypto Suite* option to the *Edit Trunk→Advanced Settings* page to allow users to select and prioritize the SRTP encryption algorithms offered in outgoing calls. [EXTENSION/TRUNK SRTP CRYPTO SUITE]

- [VoIP Trunks] Added a *Total Time Limit for Outbound Calls* section to the *Edit VoIP Trunk→Basic Settings* page to limit the cumulative call duration over a specified period. [EXTENSION/TRUNK SRTP CRYPTO SUITE]

- [VoIP Trunks] Heartbeat OPTION will still be resent even after not receiving a response after three OPTION messages.

- [Wave] Made several UI adjustments.

- [Wave] Optimized process when calling extensions on the private local network.

- [Wave] Updating or resetting the UCM lighttpd certificate will no longer require Wave users to log out.

- [Wave] LDAP contacts can now be viewed from the Extended Contacts page.

- [Wave] Added support for Wave's new whiteboard/document sharing collaboration feature.

- [Web] Optimized search functionality.

- [Web] Unified web UI behavior when exceeding maximum character limits in fields. When the limit is exceeded, users will still be able to enter additional characters, but an error message will appear saying that the limit has been exceeded.

- [Web] Added *RemoteConnect* plan information and *GDMS Cloud Storage* section to the *Dashboard* page.

- [WebRTC Trunks] Added WebRTC trunks to allow people to call into the UCM via a URL. [WEBRTC TRUNKS]

- [Zero Config] A separate time zone for Israel (GMT +2) has been created to account for daylight savings (currently only on the *Zero Config → Global Policy* page).

BUG FIXES

- **[System]**
  - Fixed several crashing issues.
  - Fixed an issue with high CPU usage when making frequent emergency calls.
- **[Active Calls]**
  - Fixed several Active Call display issues.
- **[Basic Call]**
  - Fixed an issue with not passing H.264 video preview to video endpoints.
  - Fixed an issue with a few seconds of audio not being heard after establishing a call.
- **[Backup/Restore]**
  - Fixed an issue with backing up voicemail recordings to an SD card.
- **[BLF]**
  - Fixed an issue with BLF displaying incorrect CID information after an attended transfer.
- **[Call Flip]**
  - Fixed several issues with call flipping with an SCA extension.
  - Fixed an issue with displaying the Active Call record after call flipping a queue call.
  - Fixed an issue with opening video after call flipping twice.
- **[Contacts]**
  - Fixed an issue with failing to save after editing a number in certain cases.
  - Fixed an issue with importing external contacts if the department name contains an underscore.
  - Fixed an issue with not syncing and displaying extension name after creating new contact viewing privileges.
  - Fixed an issue with searching for external contacts.

- **[CDR]**
  - Fixed several CDR display issues.
- **[GDMS]**
  - Fixed an issue with not retransmitting alert events if the GDMS server version does not support them.
  - Fixed an issue with not generating the recovery alert after fixing UCM system time to be consistent with local time.
- **[Extensions]**
  - Fixed an issue where UCM would not allow deletion of SIP extensions when system time is inconsistent with IM server time.
  - Fixed an issue with being unable to register to IAX extensions with ACL policy set to xxx.xxx.xxx.0/24.
  - Fixed an issue with importing contacts after deleting and recreating departments.
- **[Feature Code]**
  - Fixed an issue with removing a blacklist entry if it was added via the webUI.
  - Fixed an issue with hanging up via feature code after a seamless transfer.
  -
- **[GDMS]**
  - Fixed an issue with not generating the recovery alert after fixing UCM system time to be consistent with local time.
  - Fixed an issue with syncing SIP extensions to GDMS if the extension was automatically assigned via Zero Config.
- **[HA]**
  - Fixed an issue with rebooting the standby UCM after downgrading the active UCM.
  - Fixed an issue where the cluster IP address is not used in SIP messaging when STIR/SHAKEN is involved.
  - Fixed an issue with white screen during video meetings when under an HA environment.
  - Fixed an issue with voice prompts after an HA failover.
  - Fixed an issue with being unable to log into the standby device in certain cases.
  - Fixed an issue with IPv4 calls not working when there is an IPv6 address conflict.
  - Fixed an issue with logging into the standby device after powering off and on.
  - Fixed an issue with not syncing RemoteConnect plan information.
  - Fixed an issue with voice prompts after an HA failover.
- **[HTTPS API]**
  - Fixed an issue with PMS API dateout parameter not supporting the yyyy-mm-dd date format.

- **[IVR]**

  - Fixed an issue with IVR time conditions not applying to nested IVRs.

  - Fixed an issue with key pressing events to meeting rooms.

  - Fixed an issue with the used prompt tone language not matching the one configured for the IVR.

- **[LDAP]**

  - Fixed an issue with failing to save when the LDAP Server Root Password has the special characters ´ and ¨

- **[Maintenance]**

  - Fixed an issue with automatically cleaning up meeting history even when the Max Entries threshold has not been reached yet.

  - Fixed an issue with displaying error after enabling IM Data Cleaner.

  - Fixed an issue with the incorrect alert being generated after unplugging an external storage device during backup.

- **[Meetings]**

  - Fixed an issue with an abnormal system error message when clicking on the Download All button in the Meeting Video Recordings page when the UCM has no external storage.

  - Fixed an issue where a meeting participant that will be a host for the next immediate meeting in the same room would not become host after leaving the current meeting and joining the waiting room.

  - Fixed an issue where the video feed of the old host would still be displayed after transferring host privileges.

  - Fixed an issue with a green screen appearing after toggling on video.

  - Fixed an issue with exceeding max allowed number of video feeds when call flip is involved.

  - Fixed an issue with the meeting video recording showing a green screen for a few seconds.

- **[Music on Hold]**

  - Fixed an issue where MOH is restarted after the queue moves onto the next agent.

- Fixed an issue with abnormal playback of Music on Hold playlist to queue callers.

- **[Operator Panel]**

  - Fixed an issue with displaying the wrong caller number when a meeting has invited participants.

  - Fixed an issue with abnormal search results.

  - Fixed an issue with displaying the wrong caller number when a meeting has invited participants.

- **[Paging/Intercom]**

  - Fixed an issue with pages going into voicemail.

- **[Queue]**

  - Fixed an issue with inconsistent BLF monitoring behavior.

- **[Recordings]**

  - Fixed an issue with not updating the recording files lists under the *CDR→Recording Files* and *Call Features→Call Queue→Call Recordings* pages.

  - Fixed an issue with abnormal noise in recordings for normal calls.

  - Fixed an issue with storage path not changing automatically if the original storage location was set to NAS and the NAS becomes unavailable.

- **[RemoteConnect]**

  - Fixed an issue with the system reboot alert sent to GDMS.

  - Fixed an issue with saving when configuring Passwordless Remote Access.

- **[Routing]**

  - Fixed an issue with deleting inbound mode feature codes when they conflict with existing feature codes.

  - Fixed an issue with not being able to seamless transfer to outgoing DOD numbers.

  - Fixed an issue with sending the configured Outbound CID.

- **[SIP Settings]**

- o Fixed an issue with DTMF not being recognized by some SIP providers.

- o Fixed an issue with the diversion header being incorrect after calling a remote extension and being forwarded out to an external number.

- **[SLA]**

  - o Fixed an issue with ringing multiple endpoints registered to an extension when receiving inbound calls via the SLA trunk.

  - o Fixed an issue with resuming calls from an SLA trunk after an HA failover.

  - o Fixed an issue with canceling calls after they are routed from an SLA trunk to an HT8xx endpoint.

- **[Voicemail]**

  - o Fixed an issue with CID format of a caller that left a voicemail if the caller's INVITE contained a PAI header.

  - o Fixed an issue with deleting voicemail.

  - o Fixed an issue with forwarded voicemail information not being correct.

  - o Fixed an issue with incorrect CID information being displayed for voicemail.

- **[Voicemail Group]**

  - o Fixed an issue with forwarding voicemail to a voicemail group.

  - o Fixed an issue with adding extensions and forwarding to voicemail groups.

- **[VoIP Trunks]**

  - o Fixed an issue with video FEC not reducing the effects of packet loss with register trunks.

- **[Wave]**

  - o Fixed an issue with an error prompt when checking the Meeting Assistant after a meeting has ended.

  - o Fixed an issue with displaying the caller number of voicemail.

  - o Fixed an issue with logging out when making a call.

- o Fixed an issue with displaying NaN as time after unsuccessfully inviting a participant to join a meeting.

- o Fixed an issue with displayed message time information being incorrect after listening to the voicemail message via feature code.

- o

- o [Web] Fixed an issue with not displaying external contacts in the participant list.

- o [Web] Fixed an issue with incorrect CID display after picking up a call.

- o [Android] Fixed an issue with the time received info of voicemail.

- o [iOS] Fixed an issue with voicemail playback.

- **[Web]**

  - o Fixed an issue where users are forcibly logged out of the webUI if their public IP address changes.

  - o Fixed several web display issues.

- **[Zero Config]**

  - o Fixed an issue with provisioning OEM models FAP2601P/2602P (based on GRP2601P/02P).

  - o Fixed an issue with provisioning to GXP1782.

  - o Fixed an issue with provisioning VMPKs via Model Templates.

  - o Fixed an issue with incorrectly provisioning the Automatic Upgrade/Periodic option to GRP260x endpoints.

  - o Fixed an issue with model templates being duplicated after updating them.

  - o Fixed an issue with provisioning the UCM's WAN address instead of the LAN address when the endpoint is on the same network as the UCM.

NEW LIMITATIONS

[Contacts] Up to 50 departments can be added.
[Contacts] Department names now have a 256 character limit.

NEW FEATURES OVERVIEW

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

EXTENSION OUTGOING CALL FREQUENCY LIMIT

Users can now limit the number of outgoing calls an extension can make within a specified period. This setting can be found under the *Edit Extension➔Features* page. Once this limit has been reached, the extension would no longer be able to make outgoing calls until the next time window.

Figure 1 - Outgoing Call Frequency Limit

EXTENSION/TRUNK SRTP CRYPTO SUITE

Users can now configure the SRTP encryption algorithms offered and prioritized in outgoing calls from extensions and trunks. The following table has been added to the *Edit Extension➔Media* and *Edit SIP Trunk➔Advanced Settings* pages.

Figure 2 - SRTP Crypto Suite

MEETING AUTO RECORDINGS (BETA)

Users can now set meeting rooms and scheduled meetings to automatically record video meetings and screen share only.
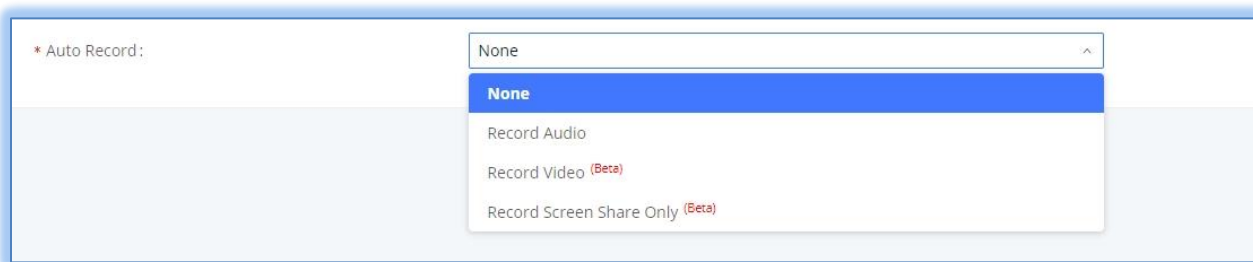
Figure 3 - Auto Record Video & Screen Share Only

FLOOD ATTACK PROTECTION

The UCM will now generate alerts notifying users when the flood defense protections have been triggered against malicious attacks. Currently, the UCM offers protection against SIP, SYN, and ping floods. SYN flood and ping flood protection can be toggled from the *System Settings→Static Defense→Typical Firewall Settings* page.
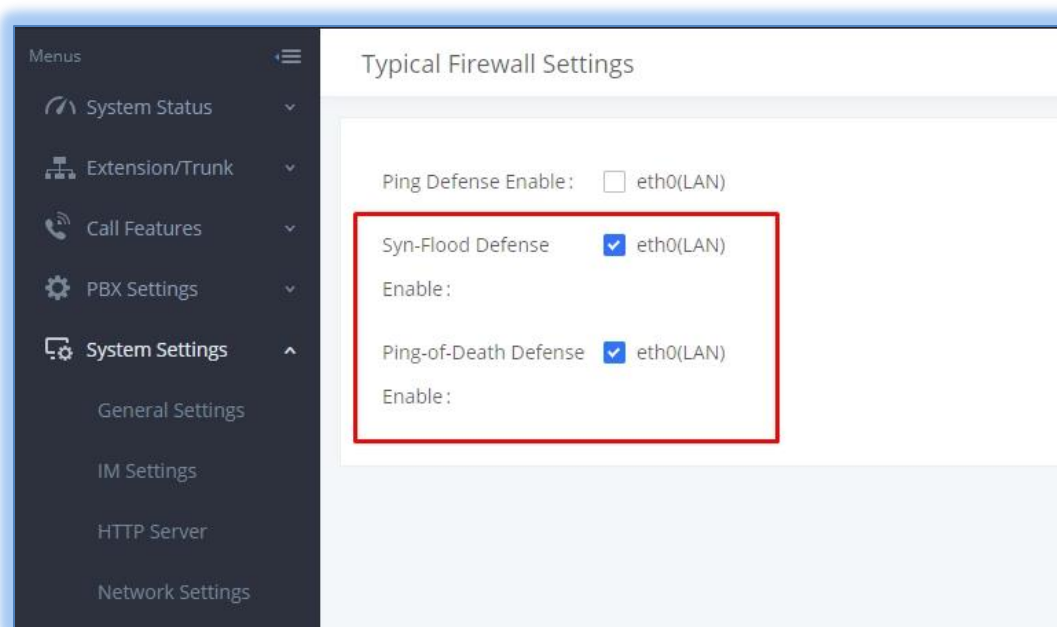
Figure 4 - SYN and Ping Flood Protection

For SIP flood protection, the option can be enabled under the *Fail2ban* page. This option was previously called *Asterisk Service.*
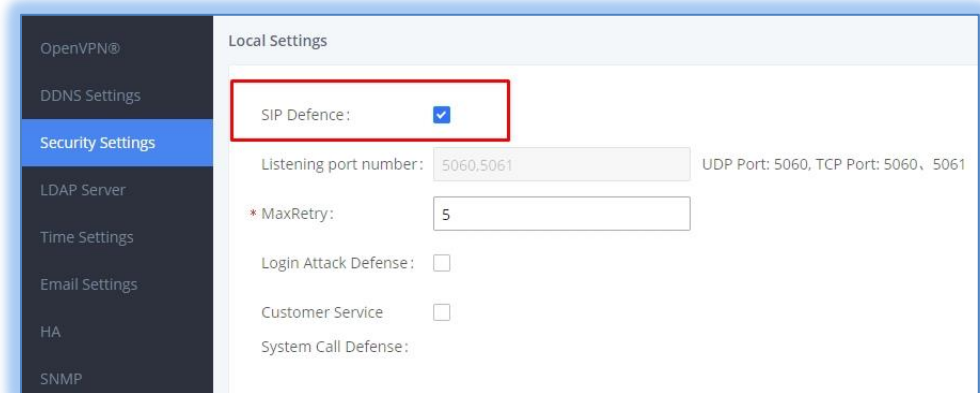
Figure 5 - SIP Flood Protection

To account for this change, SIP flood alerts will not trigger the Fail2ban blocking alerts alongside it to avoid redundant notifications.

Once these have been enabled, users can then enable alert generation and notifications in the *System Events→Alert Events List* page.
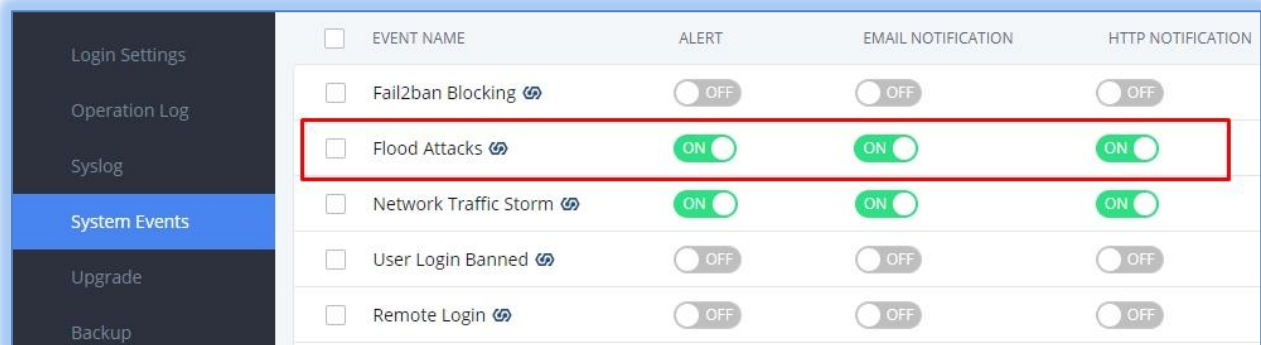
Figure 6 - System Events Flood Attacks

NETWORK PORT TRAFFIC CONTROL

The UCM can now monitor its network ports for excessive traffic and generate system event alerts when the data rate exceeds a specified threshold. Different interfaces will be available depending on what network method is used.

- *Route* - Both LAN and WAN ports can be configured.

- *Switch* – Only the LAN port can be configured.

- *Dual* – Both LAN1 and LAN2 ports can be configured.
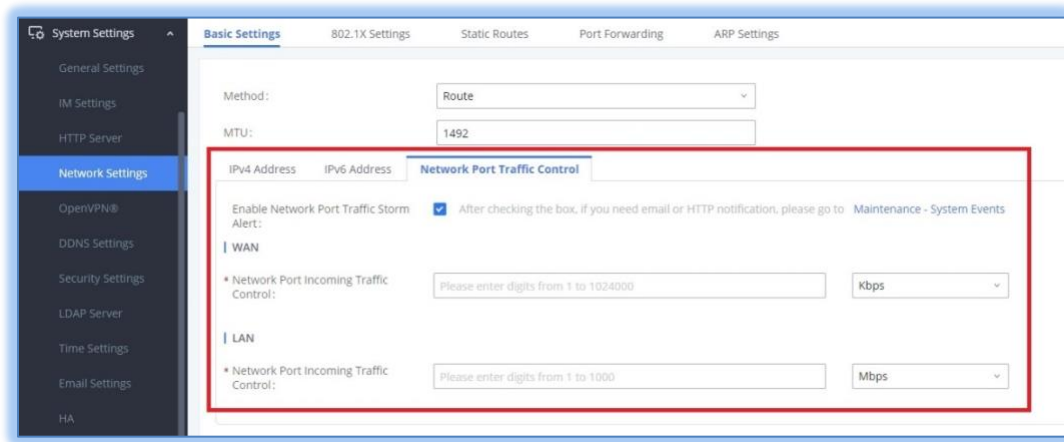
Figure 7 - Network Port Traffic Control

To toggle the alert and configure email and/or HTTP notifications, users will need to go to the *Maintenance→System Events* page and toggle on the *Network Traffic Storm* switches.
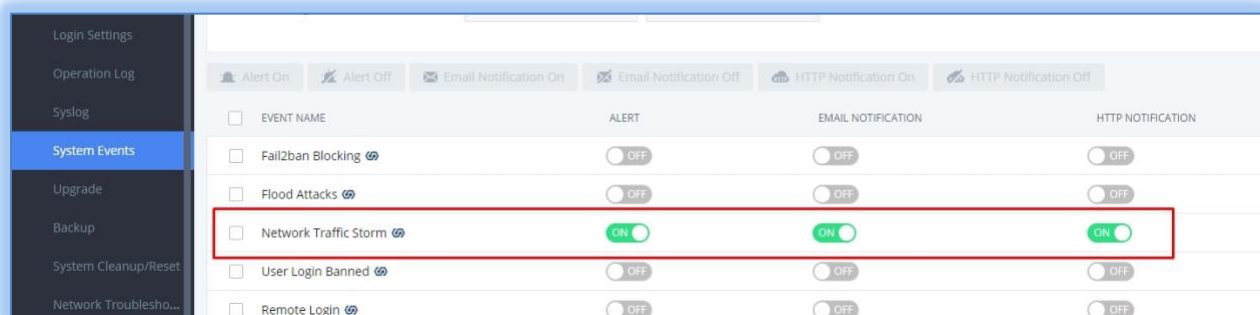
Figure 8 - Network Port Traffic Control Alerts

QUEUE SERVICE LEVEL AGREEMENT (SLA)
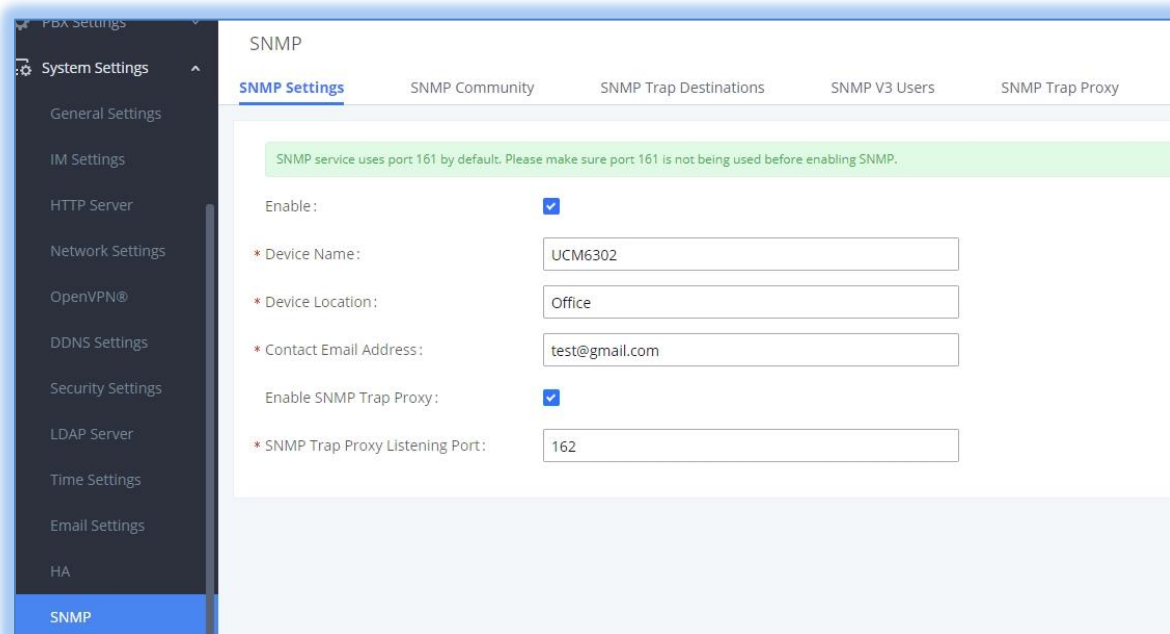
Users can now configure the UCM to monitor the agent responsiveness of queues and to generate alerts when a percentage of calls are not answered within a specified time window.

Figure 9 - Queue SLA

- **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.
- **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 Notification** – If an alert is generated, an email notification will be sent out to the selected recipients.
- **Alert Email Recipients** – Select the extensions or email addresses that alert notifications will be sent to.

SNMP SUPPORT

SNMP is now available and can be configured from the *System Settings→SNMP* page.

Figure 10 - SNMP Settings

SNMP support allows UCM63xx to be monitored by network management tools. UCM63xx can send traps (alert messages) directly to an SNMP manager or can serve as a proxy server for traps.

Figure 11 - SNMP Community

The SNMP Community page allows users to configure the UCM63xx's community strings, allowing it to determine whether or not to respond to SNMP requests from clients. Only *Read Only* access level is available.

Figure 12 - SNMP Trap Destinations

In the SNMP Trap Destinations page, users can point to where the device's traps should be sent to, set the community string to use, and specify the type of notifications to send.

Figure 13 - Edit Trap Destination

Figure 14 - SNMP V3 Users

The SNMP V3 Users page will allow the configuration of SNMPv3 users for enhanced security.
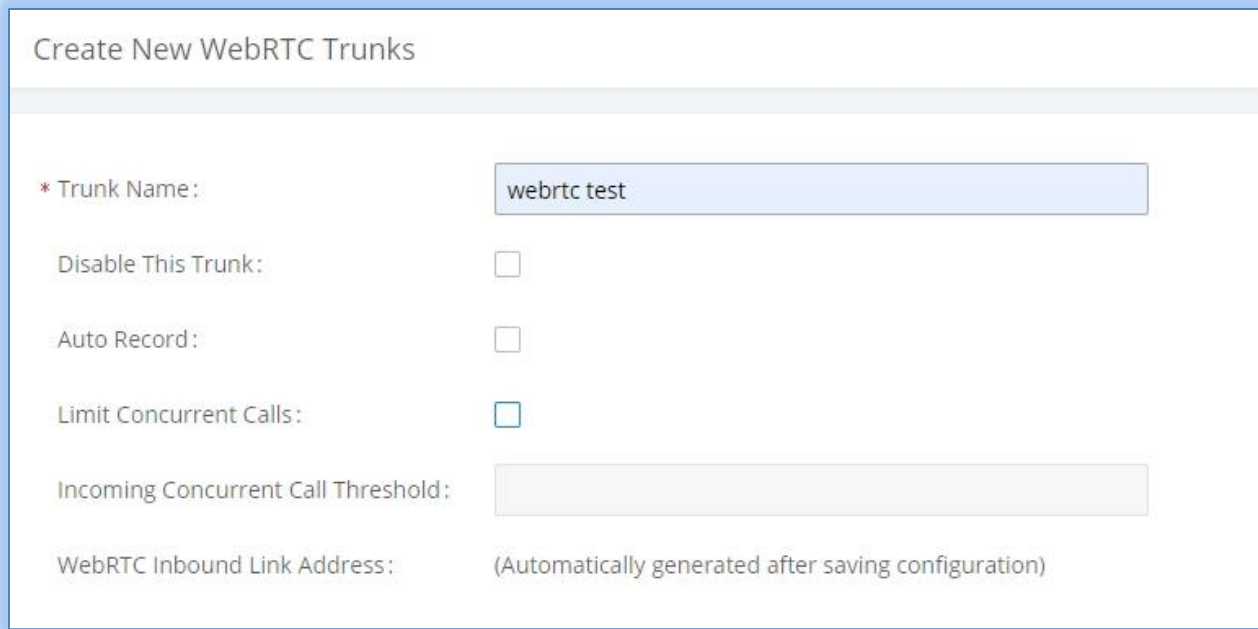
Figure 15 - SNMP Trap Proxy

The UCM63xx can act as a proxy server for trap messages. To use this feature, users will need to first toggle on the Enable SNMP Trap Proxy setting and configure the SNMP Trap Proxy Listening Port field in the SNMP Settings tab. They will then need to go to the *SNMP Trap Proxy→Edit SNMP Trap Proxy* page to configure the server address and listening port of the SNMP manager the traps will be forwarded to.

WEBRTC TRUNKS

A new type of trunk is now available for users to configure. WebRTC trunks allows people to dial into the UCM from automatically generated URLs to specified destinations on the UCM via inbound routes. This can be hyperlinked on business websites to allow people to quickly and conveniently contact companies.
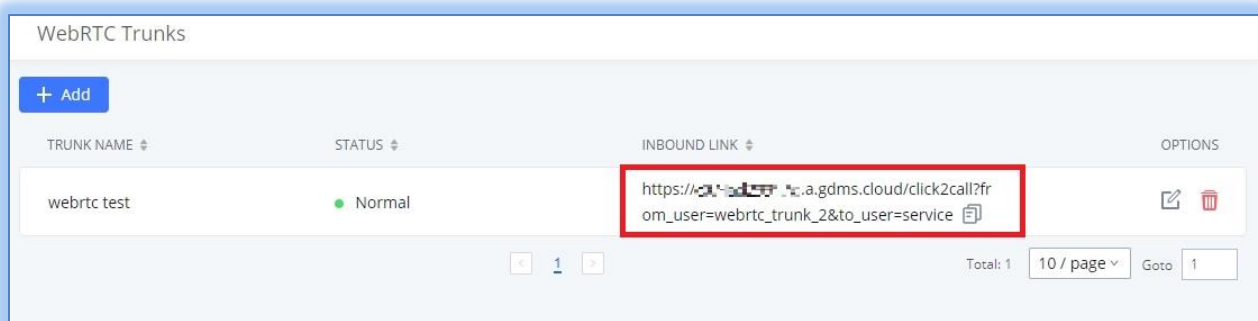

Figure 16 - WebRTC Trunks

Once created, the URL will be automatically generated and displayed on the WebRTC trunk overview page.

Figure 17 - WebRTC Trunk Overview

When editing WebRTC trunks, options that were not available in the trunk creation page will now be shown:


Figure 18 - Edit WebRTC Trunk – Basic

Figure 19 - Edit WebRTC Trunk - Advanced