

UCM Series IP PBX Firmware Release Notes

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FIRMWARE VERSION 1.0.31.7

PRODUCT NAME

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

DATE

Published: 12/29/2025

FIRMWARE FILE INFORMATION

- UCM6301/6302 firmware file name: ucm6301_ucm6302fw.bin
MD5: b81e1be207b6ab2941edea7d918b1ed2
- UCM6304/6308 firmware file name: ucm6304_ucm6308fw.bin
MD5: c1af0251d39e97e651daae07ba74d1f9
- UCM6300A/6302A firmware file name: ucm6300A_ucm6302Afw.bin
MD5: 7f3b0502bdab382db3d8c3d14ef13c19
- UCM6304A firmware file name: ucm6304Afw.bin
MD5: ea8f68365f8918e3096cf0425295661c
- UCM6304/6308 firmware file name: ucm6308Afw.bin
MD5: 589420a4b5a013bea43091a66b9704d8

IMPORTANT UPGRADING NOTE

- **WARNING: BEFORE UPGRADING TO 1.0.27.10 OR HIGHER, PLEASE MAKE A FULL BACKUP. DUE TO THE SUPPORT OF ENCRYPTION IN 1.0.27.10 AND HIGHER, DOWNGRADING TO 1.0.25.9 OR LOWER WILL REQUIRE A FACTORY RESET.**
- **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 before upgrading further.**
 - **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
- **If the device is on firmware version 1.0.7.x or lower, please upgrade to 1.0.9.x first before upgrading to the latest firmware.**
 - **UCM6301/2:** 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
 - **UCM6300A/6302A:** http://firmware.grandstream.com/Release_UCM6300A_6302A_1.0.9.10.zip
 - **UCM6304A:** http://firmware.grandstream.com/Release_UCM6304A_1.0.9.10.zip
 - **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 1.0.29.21

ENHANCEMENTS

- **[System]** Added optimizations to improve handling of large numbers of subscription requests.
- **[Extension]** Added Multi-Factor Authentication toggle option to Edit Extension→Wave Client page. [WAVE EMAIL MULTI-FACTOR AUTHENTICATION]
- **[Extension]** Wave Administrator has been added as a *User Portal/Wave Privileges* option under the extension settings.
- **[Extension]** Added *Use callee DOD on FWD or RS* option to *Edit Extension→Features* page to allow extensions to use their DOD as CID for outbound blind transfers and redirected calls.
- **[HA]** Added support for Dual network method.
- **[HTTPS API]** Added API support for adding, editing, and deleting LDAP contacts. The following commands have been added: addContact, deleteContact, and updateContact. Please check our official [IPPBX HTTPS API guide](#) for details on usage.
- **[Maintenance]** Added support for scheduling up to 10 backup tasks to different storage locations.
- **[Maintenance]** Optimized display of cleanup reports.
- **[Paging]** Added support for 1-way and 2-way paging to LDAP members.
- **[PBX Settings]** Added support for Amazon S3 cloud storage as a backup location. This new feature can be found under the new *PBX Settings→Storage Device Management* page. [AMAZON S3 SUPPORT]
- **[PMS]** Added various new features to Local PMS. [LOCAL PMS ENHANCEMENTS]
- **[Queue]** Added agent proficiency-based routing. [QUEUE AGENT PROFICIENCY-BASED ROUTING]
- **[Routing]** Added support for contact querying to 3rd party SQL servers in addition to the MySQL support in 1.0.27.x. Database configuration has been moved to *Integrations→3rd Party Database Integration* page. Queried contacts can also be set to be saved to the local UCM LDAP phonebook. [3RD PARTY SQL DATABASE SUPPORT]
- **[Routing]** Added Caller ID Manipulation section to outbound route page. Users can use it to strip and prepend the CID of an outgoing call before it goes out. [CALLER ID MANIPULATION]
- **[Routing]** Users can now configure per-call and total call duration limits for outgoing calls. [Outbound Call Duration Limits]
- **[Security]** Users can now manually add entries to the Fail2ban blocklist. Up to 100 can be manually added.
- **[User Management]** Added Administrator Privileges tab, which currently supports permissions for CDR/recording viewing and downloading of select departments and extensions. [Administrator Privileges]

- **[User Management]** Added Wave permission **Recording Status** to toggle visibility of the call recording status icon in calls and meetings.
- **[User Management]** Added support for configuring pre-installed Wave add-ins for users under the User Portal/Wave Privileges page.
- **[Voice Prompts]** Added support for playback of custom prompts.
- **[Wave]** Added support for automatically refreshing Wave login QR code.
- **[Wave]** Added support for Wave account switching.
- **[User Management]** Added support for Wave email multi-factor authentication.
- **[Web]** Users can now batch delete inbound routes, outbound routes, and DODs.
- **[Web]** Trunk status and active call count will now be displayed on the VoIP Trunks overview page.
- **[Web]** Room Status page has been changed to “Check-in Management”.
- **[Web]** Zero Config port information has been added to the System Settings→Network Settings→Port Management page.
- **[Zero Config]** Added ability to search device templates by vendor.
- **[Zero Config]** Added Zero Config support for 3rd party phones such as Cisco and Polycom. [ZERO CONFIG SUPPORT FOR 3RD PARTY DEVICES]
- **[Zero Config]** Added wallpaper resolutions 320x240 and 1280x720 to Global Policy page.
- **[Zero Config]** Fixed an issue with setting LDAP lookup display name to a value containing %.

BUG FIXES

- **[System]**
 - Fixed several system stability issues.
- **[BLF]**
 - Fixed an issue with syncing presence/DND status among devices.
- **[Email Settings]**
 - Fixed an issue with incorrect RFC2822 date header format in outbound emails.
- **[PMS]**
 - Fixed an issue with not being able creating rooms.
- **[Zero Config]**
 - Fixed an issue with provisioning GSC3574.
 - Fixed an issue with provisioning GRP261x phones that are using Wi-Fi.

NEW LIMITATIONS

- **[Zero Config]** Increased firmware upload size limit to 1.5GB.

NEW FEATURES OVERVIEW

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

WAVE EMAIL MULTI-FACTOR AUTHENTICATION

Multi-factor authentication via email is now supported for Wave users. To set up MFA for extensions, go to their **Extension/Trunk**→**Edit Extensions**→**Wave Client** page and enable the **Multi-Factor Authentication** option.

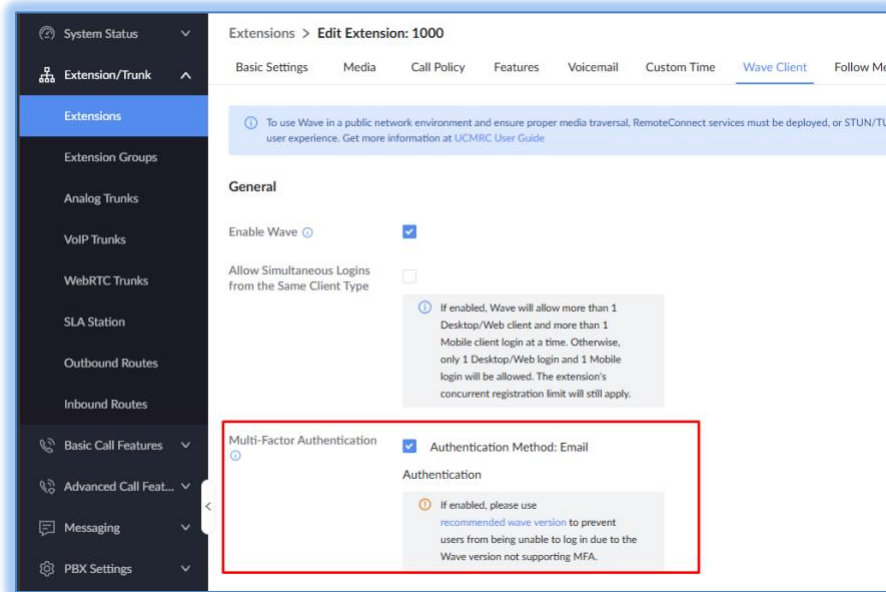


Figure 1 - Enable Wave MFA

If the user has never configured MFA before, when logging in to Wave, they will encounter this message:

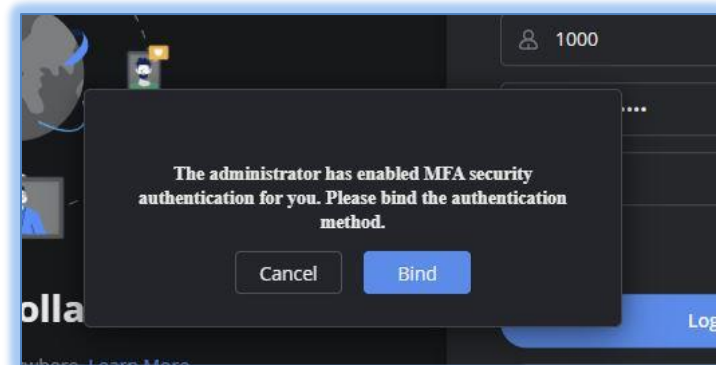


Figure 2 - Wave MFA Setup

Select the **Email Authentication** option.

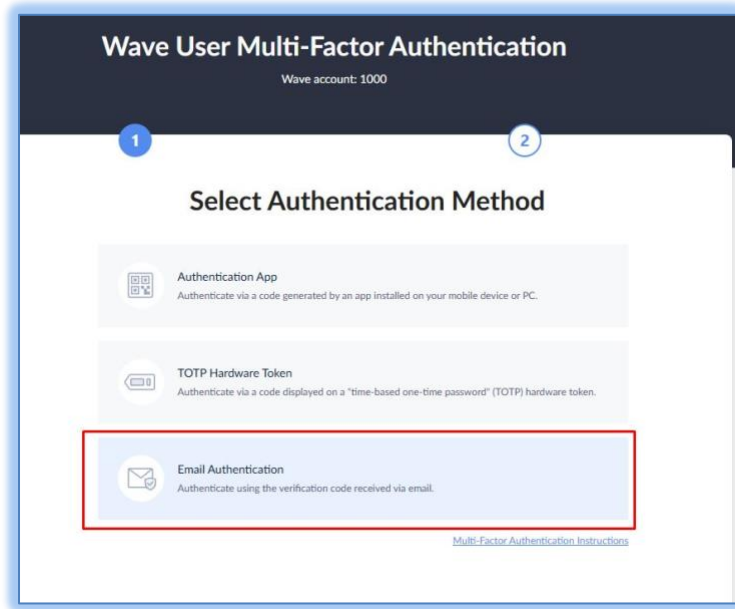


Figure 3 - Email Authentication Option

Enter the desired email address for MFA and click on the **Send** button to send the authentication code to the configured email inbox.

The screenshot shows the 'Wave User Multi-Factor Authentication' interface for 'Email Authentication'. At the top, it says 'Wave account: 1000'. Below this, there are two step indicators, 1 and 2. The main heading is 'Email Authentication'. There are two steps: '01 Please enter your email address and click the "Send Email" button' and '02 Please enter the 6-digit verification code sent to the above email address. Valid for 10 minutes'. In step 1, the email address 'john.smith@email.com' is entered in the text field, and there is a 'Resend (8s)' button. In step 2, the verification code '930377' is entered in the text field.

Figure 4 - Send Verification Code

Enter the received code into Step 2's field.

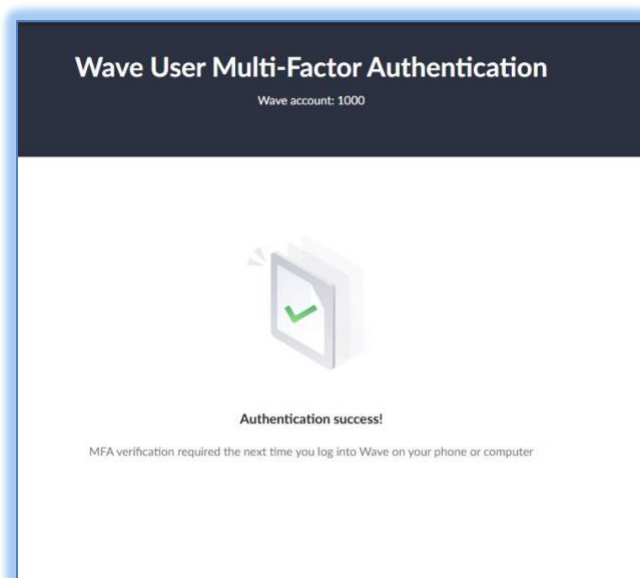


Figure 5 - MFA Setup Success

Now that setup is complete, go back to the Wave login page and log in with your credentials again. This time, the following pop-up window will appear:

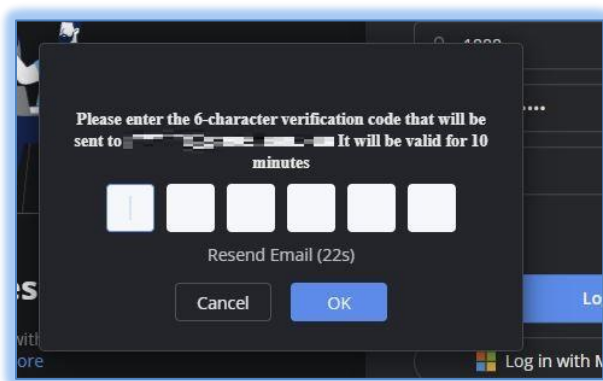


Figure 6 - Wave Email MFA

Check your configured email inbox for the verification code and enter it into the fields shown above. Please check the spam folder if the email cannot be found in the main inbox. If the verification code is correct, you will successfully log into Wave.

AMAZON S3 SUPPORT

Users can now configure and select Amazon S3 cloud storage as a backup location. To configure, go to the **PBX Settings→Storage Device Management→Amazon S3** page.

The screenshot shows the 'Storage Device Management' interface with the 'Amazon S3' tab selected. The left sidebar contains a navigation menu with options like System Status, Extension/Trunk, Basic Call Features, Advanced Call Features, Messaging, PBX Settings, General Settings, SIP Settings, IAX Settings, RTP Settings, Music On Hold, Voice Prompt, Call Prompt Tones, Alert-info Prompt, and Interface Settings. The main configuration area includes:

- Enable:** A toggle switch that is currently turned on.
- Region:** A dropdown menu showing 'US West (N. California) us-west-1'. A tooltip explains that if there is no option, the user should enter the AWS Region code (e.g., 'us-east-2' for the eastern part of the United States).
- Bucket:** A text input field containing 'test'. A note specifies that the bucket name must be 3-63 characters, supporting lowercase letters, numbers, and special characters.
- Key ID:** A text input field filled with dots.
- Secret Key:** A text input field filled with dots.
- Test Connection:** A 'Start' button. A tooltip recommends testing the connection during initial setup and after changing settings.
- Buttons:** 'Cancel' and 'Save' buttons at the bottom.

Figure 7 - Amazon S3 Configuration

Once configured successfully, Amazon S3 will become one of the available backup locations.

The screenshot shows the 'Backup > Create New Backup' interface. It includes a warning message about backup time for large data. The 'Choose Storage Location' dropdown menu is open, showing options: Local, SFTP Server, GDMS Cloud Storage, and Amazon S3. The 'Amazon S3' option is highlighted with a red box. Below the dropdown, there are checkboxes for backup content: M Files, CDR Records, Recording Files, Fax Files, Call Statistics Report, ZeroConfig Storage, and Meeting Report. A note at the bottom states: 'Selecting "Voicemail" will also back up assigned name announcements. Selecting "ZeroConfig Storage" will not back up uploaded device firmware.' At the bottom are 'Cancel' and 'Backup' buttons.

Figure 8 - Amazon S3 Backup Location

LOCAL PMS ENHANCEMENTS

New Basic Settings

Several new options have been added to the Basic Settings page when Local PMS is selected.

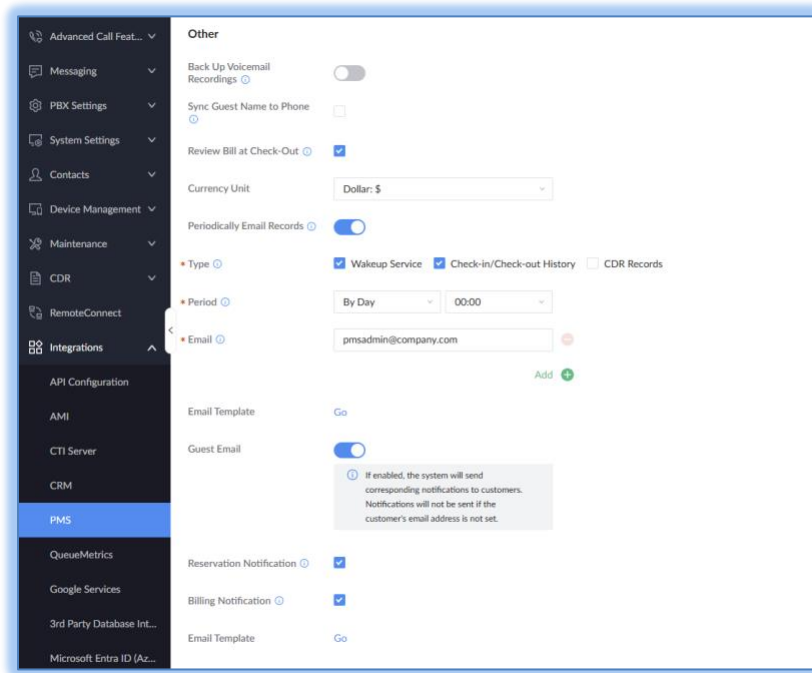


Figure 9 - New Basic Settings

Review Bill at Check-Out

When checking out a guest, a pop-up windows showing all of the guest's charges will appear for review.

PMS Self Check-in/Check-out

Users can now allow guests to check themselves in and out via email. Check-in/check-out emails can be sent in advance based on the **Send in Advance (hrs)** settings.

Periodically Email Records

Users can set to periodically send wakeup service logs, check-in/check-out history, and CDR to a specified email address for administrative review.

Guest Email

Email notifications can be enabled to send guests important information about their reservations such as confirmations, cancellations, and invoices.

New Check-in Management Page

The **Room Status** tab has been renamed to **Check-in Management**, and the original Room Status contents are now in their own sub-tab.

PMS

Basic Settings Room Management Check-in Management Wakeup Service Mini Bar Housekeeper

Room Status Room Availability Calendar Reservation List Guest List

If the guest has an existing reservation, we recommend processing check-in through the reservation list.

Check-in/Check-out History Custom Room Status Codes Room Type/Room Group

Room Number	Room Type	Room Group	Check-In Status	Check In / Check Out	Room Status	Customer N	Options
1000	Houly		● Checked in	Check Out	Available	John Smith	👤 🏠
1002	Default		● Not checked in	Check In	Available	Carl Ton	
1005	Default		● Not checked in	Check In	Available		

Total: 3 1 10 / page Goto

Figure 10 - Check-in Management

The **Room Availability Calendar** provides a simple daily view of all the existing rooms and their availability each day.

PMS

Basic Settings Room Management Check-in Management Wakeup Service Mini Bar Housekeeper

Room Status Room Availability Calendar Reservation List Guest List

Check-in/Check-out History

< 12-23 ~ 01-05 >			12-23 Tuesday	12-24 Wednesday	12-25 Thursday	12-26 Friday	12-27 Saturday	12-28 Sunday	12-29 Monday
Room Type	Room Number	Room Status	Remaining 3 Spaces	Remaining 2 Spaces	Remaining 2 Spaces	Remaining 2 Spaces	Remaining 2 Spaces	Remaining 3 Spaces	Remaining 3 Spaces
Houly	1000	Available	John Smith						
Default	1002	Available		Bob Jones					
	1005	Available							

Figure 11 - Room Availability

The **Reservation List** page displays information of all existing reservations and allows users to manually check-in guests if needed.

PMS

Basic Settings Room Management **Check-in Management** Wakeup Service Mini Bar Housekeeper

Room Status Room Availability Calendar **Reservation List** Guest List

All
 Estimated Check-in Time: to

<input type="checkbox"/>	Room Type	Estimated Check-in Time	Expected Check-out Time	Check-in Type	Room Number	Number of Rooms Assigned / Number of Reservations	Name of the Booker	Options
<input type="checkbox"/>	Default	2025-12-31 15:00	2026-01-10 12:00	Full-day room	1005	1/1 Room Assignment	Mary Sue	<input type="button" value="Check In"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>

Figure 12 - Reservation List

Finally, the **Guest List** page displays all guests that have made room reservations. Note: Guest entries are not automatically deleted upon check-out and must be manually deleted if needed.

PMS

Basic Settings Room Management **Check-in Management** Wakeup Service Mini Bar Housekeeper

Room Status Room Availability Calendar Reservation List **Guest List**

<input type="checkbox"/>	Guest ID	Customer Name	Email	Mobile Number	Guest Category Code	Options
<input type="checkbox"/>	1	John Smith	john.smith@email.com	+1 1234567890		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	2	Bob Jones			01	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	3	Mary Sue				<input type="button" value="Edit"/> <input type="button" value="Delete"/>

Figure 13 - Guest List

Room Types & Hourly Rentals

Under the **Room Management**→**Room Type** page, users can create room types with different availabilities and per-day pricing. Additionally, they can set rooms to allow hourly rentals instead of traditional night stays.

PMS > Edit Room Type: default

* Room Type: Houly 2 - 64 characters, Alphanumeric characters, Chinese characters, and special characters _ - are supported

Tax rate (%): 8

Daily Price:

Mon	Tue	Wed	Thu	Fri	Sat	Sun
300	300	300	300	300	350	350

Holiday Pricing ⓘ

Holiday: New_Years Price: 500 + - Add +

Allow Hourly Rental: ☒

Hourly Room Settings

Example:
 Stay Duration: 3 hrs
 Base Price: 100
 Overtime Rate: 30/hr
 If stay duration is less than 3 hours, the final charge will be 100.
 If stay duration is 4 hours, the final charge will be 130 (100+30).
 If stay duration is 4.5 hours, the final charge will be 160 (100+60) since overstay rates are not round down.

* Available Stay Periods ⓘ

20:00 🕒 22:00 🕒 + -

* Length of Stay (Hours) ⓘ * Base Price Overtime Price (Per Hour) ⓘ

2 100 150 + - Add +

Cancel Save

Figure 14 - Room Type

QUEUE AGENT PROFICIENCY-BASED ROUTING

Proficiency Routing option has been added to the Call Queue Basic Settings page, and call queue agents can now be assigned numerical proficiency levels. The lower the number, the higher the proficiency (e.g. 1 indicates higher proficiency than 50). If Proficiency Routing is enabled, agents with higher proficiency levels will be given priority for calls. If agents have the same proficiency levels, the call will then be routed based on the new **Ring Strategy for Same Proficiency Level** setting.

Call Queue > Edit Queue: 6500

Basic Settings Advanced Settings Agents

General

* Extension 6500 * Name testQueue

Proficiency Routing ☒ Ring Strategy for Same Proficiency Level Ring All

Music On Hold Default * Max Queue Length

* Agent Rest Time (s) 10 * Retry Time (s)

* Agent Ring Time (s) 30 Auto Record

Prompt Language Default

Ring All
Linear
Least Recent
Fewest Calls
Random
Round Robin

Figure 15 - Proficiency-Based Routing

Agent proficiency levels can be viewed and assigned from the **Agents** page.

☐ 9 Selected

Search

<input type="checkbox"/> 1000	Proficiency Level: 5	
<input type="checkbox"/> 1001	Proficiency Level: 5	
<input type="checkbox"/> 1003	Proficiency Level: 5	
<input type="checkbox"/> 1004	Proficiency Level: 5	
<input type="checkbox"/> 1005	Proficiency Level: 5	
<input type="checkbox"/> 1006	Proficiency Level: 5	

Figure 16 - Proficiency Level

Note: All agents are assigned proficiency level 5 by default.

3RD PARTY SQL DATABASE SUPPORT

Users can now configure SQL servers to query to for contact information lookup for incoming calls. Originally, this was limited to only MySQL servers, and configuration was located in the **Inbound Routes** configuration page. Server configuration has been moved to **Integrations**→**3rd Party Database Integration**.

Figure 17 - 3rd Party Database Integration

Once configured, users can then go to the **Extension/Trunk→Inbound Routes→3rd Party Database Search** page to enable CID lookup for incoming calls. Finally, CID name lookup can then be configured for individual routes.

Figure 18 - Inbound Route Configuration

CALLER ID MANIPULATION

Users can now do a last-step modification of outgoing CIDs on the **Outbound Routes** configuration page, specifically modifying the call's SIP FROM header.

The screenshot shows the UCM6301 web interface. On the left is a navigation menu with options: System Status, Extension/Trunk, Extensions, Extension Groups, Analog Trunks, VoIP Trunks, WebRTC Trunks, SLA Station, Outbound Routes (highlighted), Inbound Routes, Basic Call Features, Advanced Call Features, and Messaging. The main content area is titled 'Outbound Routes > Edit Outbound Rule: trunk_out'. It contains a 'General' section with fields for Outbound Rule Name (trunk_out), Outbound Number Matching Pattern (_x.), Auto Record (checkbox), Local Country Code, and Outbound Route CID (man<1000>). Below this is a 'Caller ID Manipulation' section, which is highlighted with a red box. It includes a toggle switch for 'Caller ID Manipulation' (turned on), a dropdown for 'Caller ID Mode' (set to 'Original CID'), and input fields for 'Strip' (5) and 'Prepend' (011). Each field has a help icon and a character limit description.

Figure 19 - CID Manipulation

Two options are available for **Caller ID Mode**:

- **All:** All outgoing calls will have their CIDs modified based on the configuration.
- **Original CID:** Only calls that originated from a trunk will have their CIDs modified based on the configuration.

OUTBOUND CALL DURATION LIMITS

In addition to trunk-level call duration limits, users can now also configure maximum call duration and per-call duration limits on each outbound route, allowing for finer control of enterprise communications.

Figure 20 - Outbound Route Call Duration Limit

ZERO CONFIG SUPPORT FOR 3RD PARTY DEVICES

UCM has begun support for 3rd party devices. Currently, UCM supports:

- Cisco: CP-78XX, CP-88XX, DP-98XX
- Polycom: Edge-E, Edge-B, VVX (non-Obi)

To enable this, go to **Device Management**→**Zero Config**→**Zero Config Settings** and enable **Manage 3rd Party Phones**.

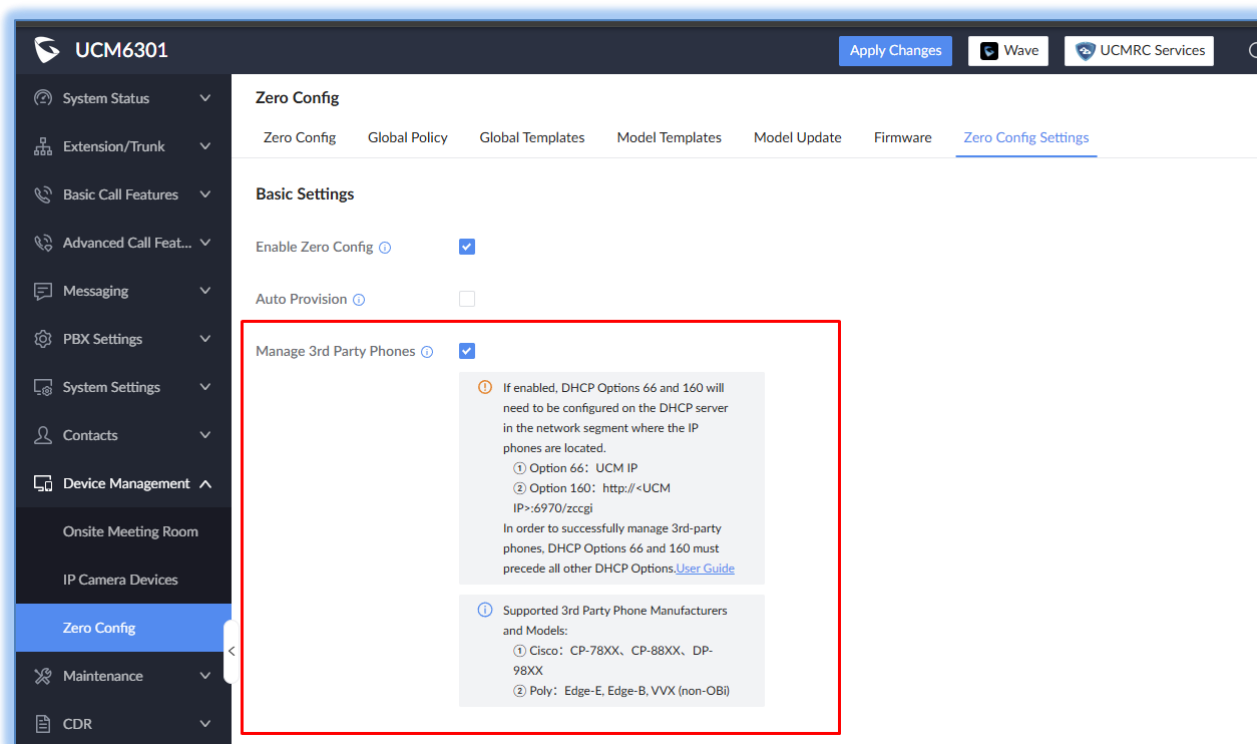


Figure 21 - Zero Config 3rd Party Phones

As noted in the image above, DHCP Options 66 and 160 must be configured on the DHCP server in the network segment that the phones are on. Once enabled, Zero Config will be able to scan and find support 3rd party device models.

Global Policy, Global Templates, and Model Templates will support these 3rd party devices. Model templates will be gradually added upon with more settings. Users may also manually upload model template packages (.pack format) for these 3rd party devices.