

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 PROFICENCY-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.

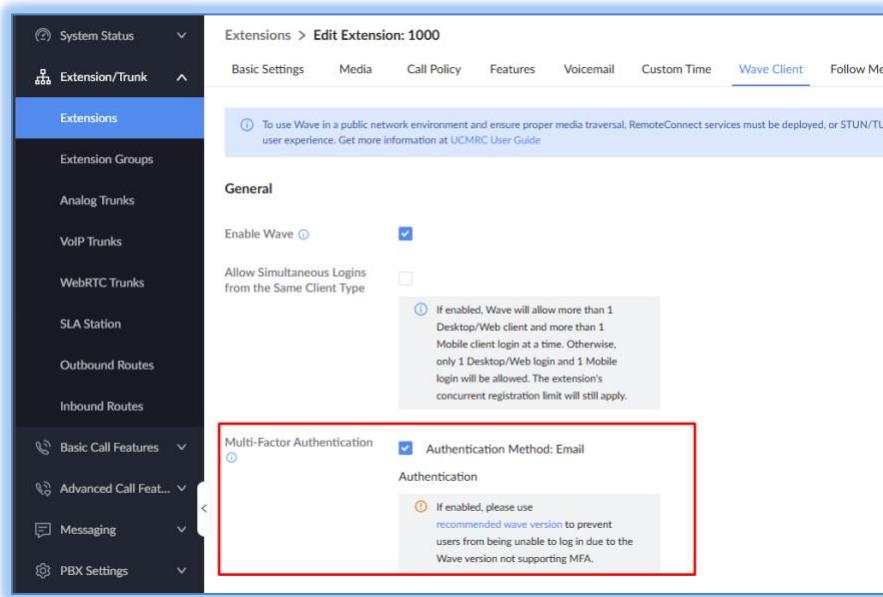


Figure 1 - Enable Wave MFA

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

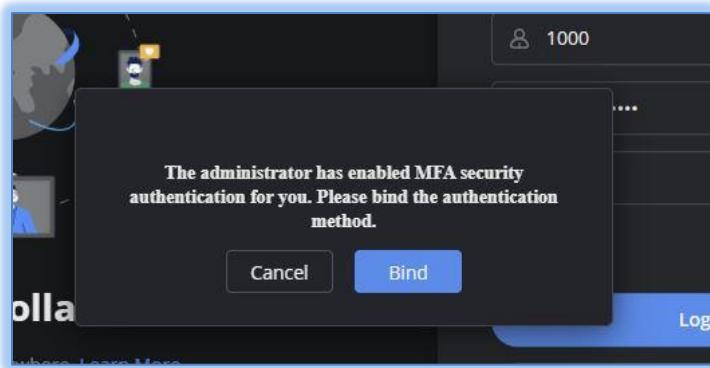


Figure 2 - Wave MFA Setup

Select the **Email Authentication** option.

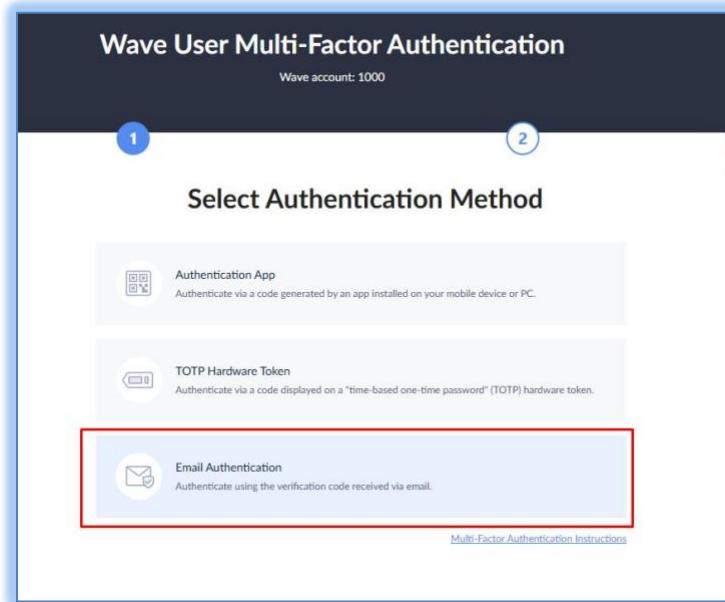


Figure 3 - Email Authentication Option

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

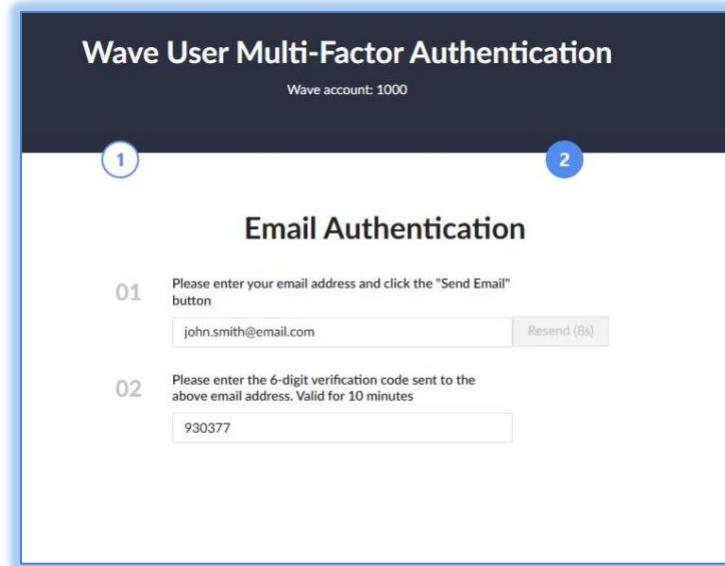


Figure 4 - Send Verification Code

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:

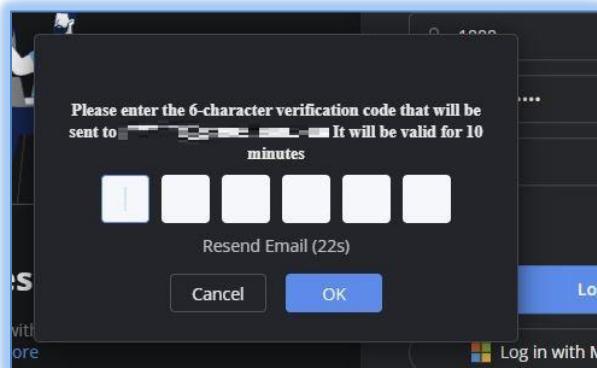


Figure 6 - Wave Email MFA

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.

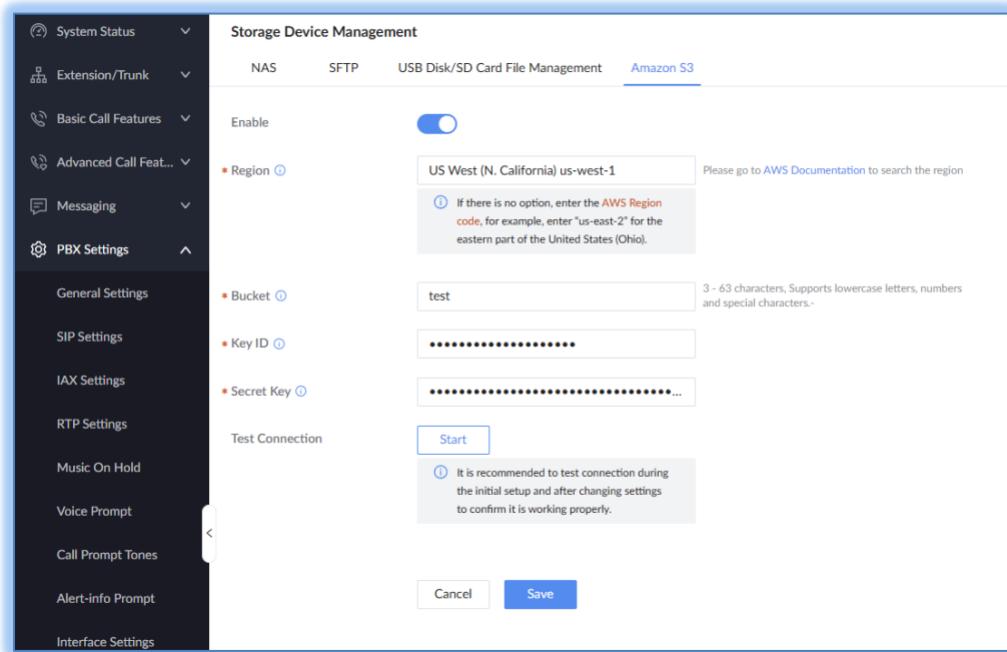


Figure 7 - Amazon S3 Configuration

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

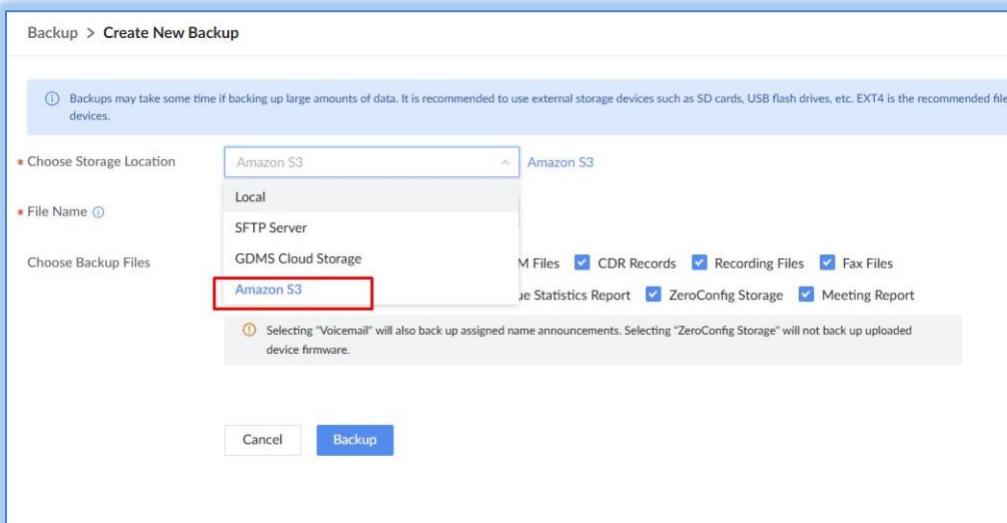


Figure 8 - Amazon S3 Backup Location

LOCAL PMS ENHANCEMENTS

New Basic Settings

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

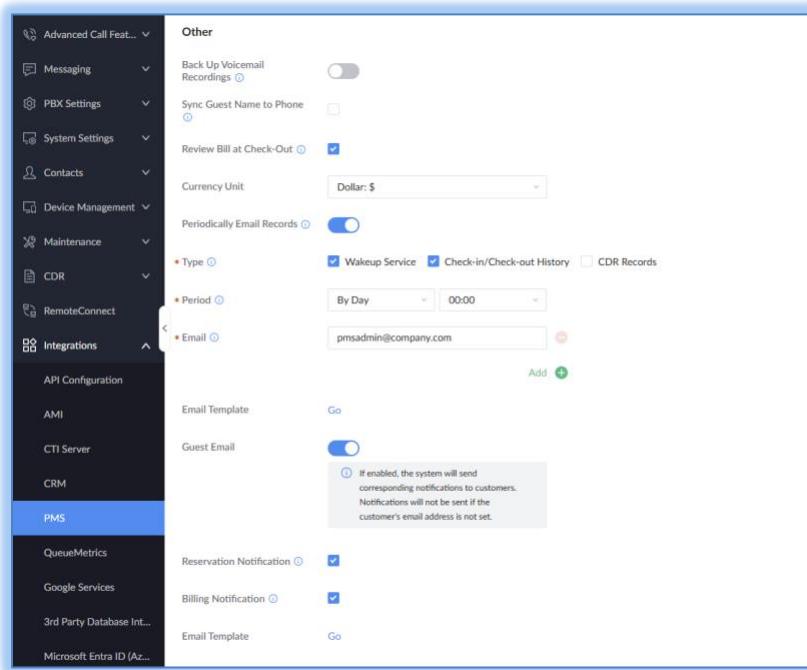


Figure 9 - New Basic Settings

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		
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 Name 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			
Room Status		Room Availability Calendar		Reservation List		Guest List					
Check-in/Check-out History											
<	12-23 ~ 01-05			>	12-23 Tuesday Remaining 3 Spaces	12-24 Wednesday Remaining 2 Spaces	12-25 Thursday Remaining 2 Spaces	12-26 Friday Remaining 2 Spaces	12-27 Saturday Remaining 2 Spaces	12-28 Sunday Remaining 3 Spaces	12-29 Monday Remaining 3 Spaces
Room Type	Room Number	Room Status									
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			
Add	Cancel Reservation	Edit	All	<input type="text" value="Name of the booker/..."/>	Estimated Check-in Time: <input type="text" value="Start Time"/> to <input type="text" value="End Time"/>	
<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 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
						Check In Edit 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			
Add	Delete	Import	Export <input type="button" value="v"/>	<input type="text" value="Customer Name/Mobile"/>		
<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		Edit Delete	
<input type="checkbox"/> 2	Bob Jones			01	Edit Delete	
<input type="checkbox"/> 3	Mary Sue				Edit 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	Hourly	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	Price					
	New_Years	500	–				
		Add	+				
Allow Hourly Rental	<input checked="" type="checkbox"/>						
Hourly Room Settings	<p> ⓘ Example: Stay Duration: 3 hrs Base Price: 100 Overstay 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.</p>						
Available Stay Periods ⓘ	20:00	–	22:00				
Length of Stay (Hours) ⓘ	2	Base Price	Overtime Price (Per Hour) ⓘ				
	100	150					
	Add	+					
	<input type="button" value="Cancel"/>	<input type="button" value="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.

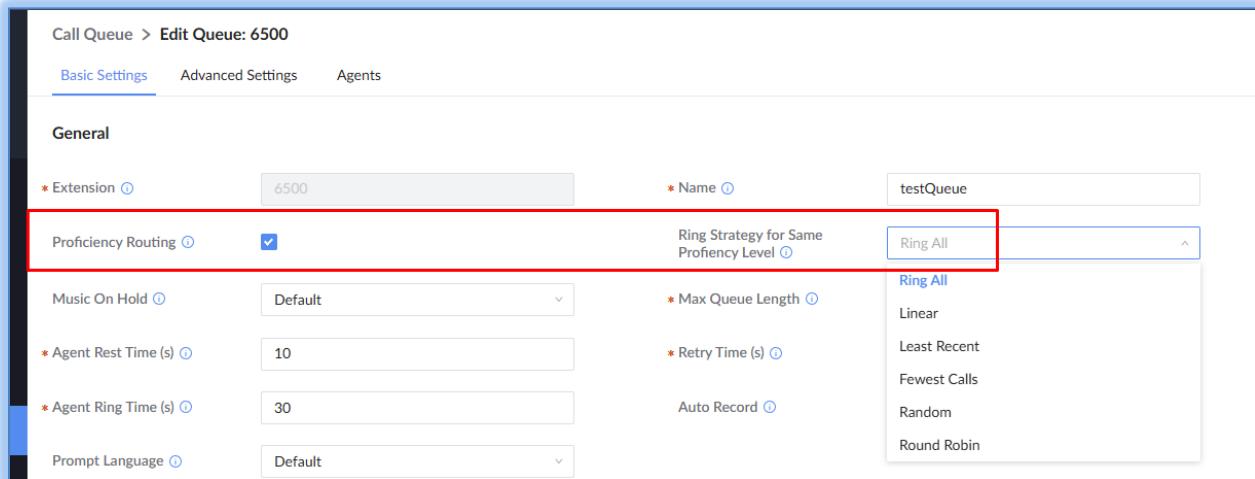


Figure 15 - Proficiency-Based Routing

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

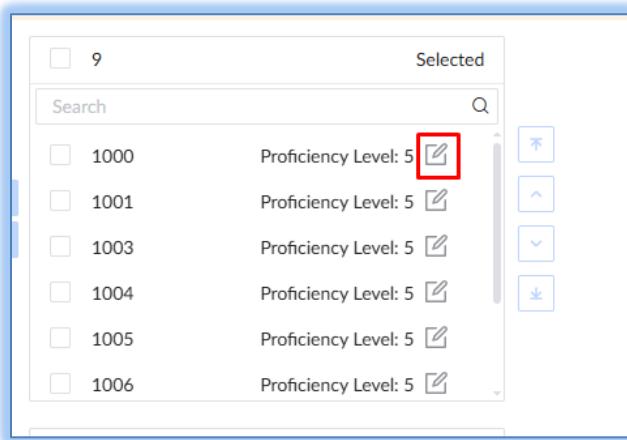


Figure 16 - Proficiency Level

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

3RD PARTY SQL DATABASE SUPPORT

Users can now configure SQL servers to query 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**.

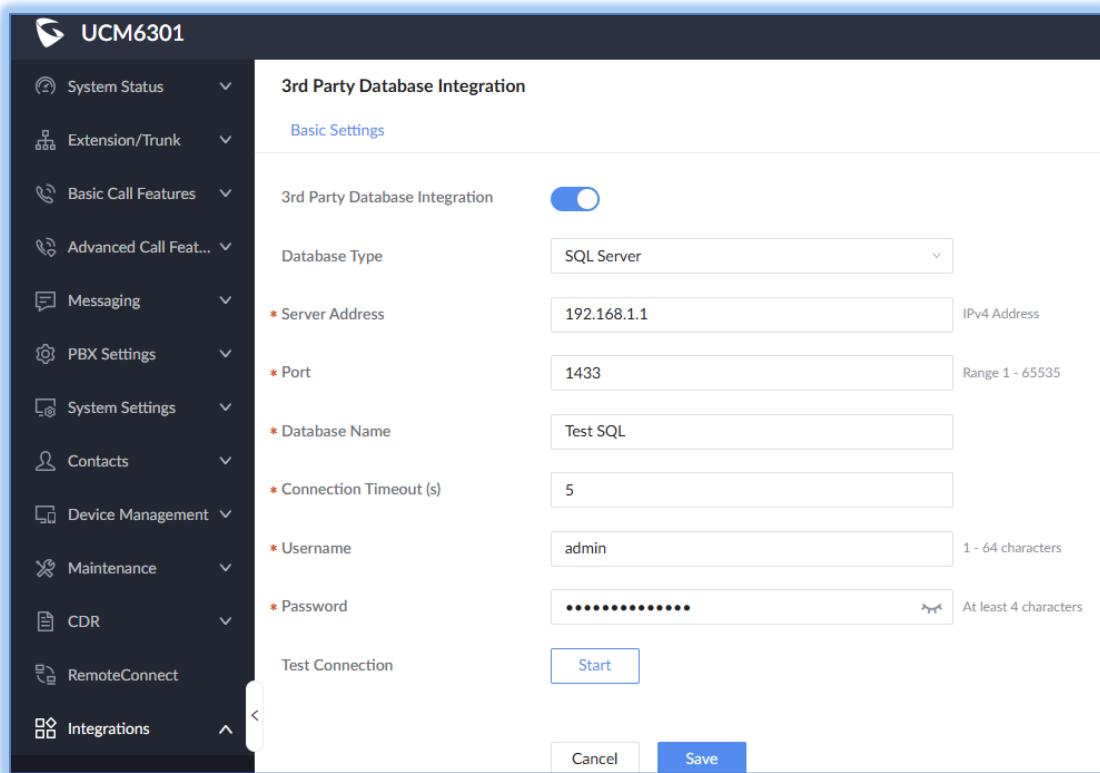


Figure 17 - 3rd Party Database Integration

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.

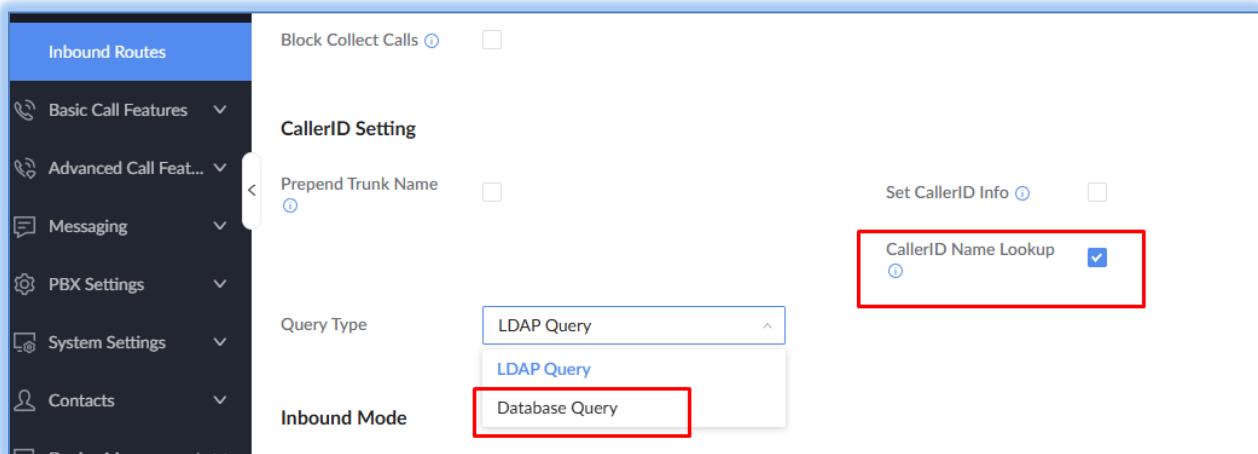


Figure 18 - Inbound Route Configuration

CALLER ID MANIPULATION

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

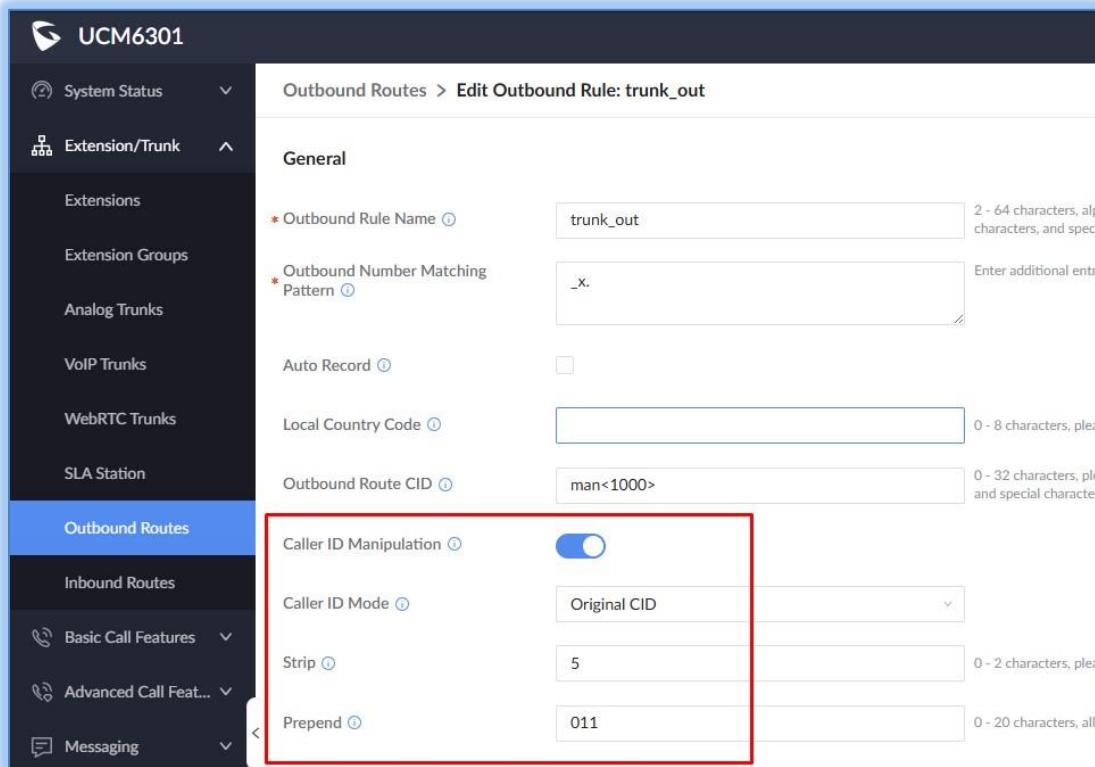


Figure 19 - CID Manipulation

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

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

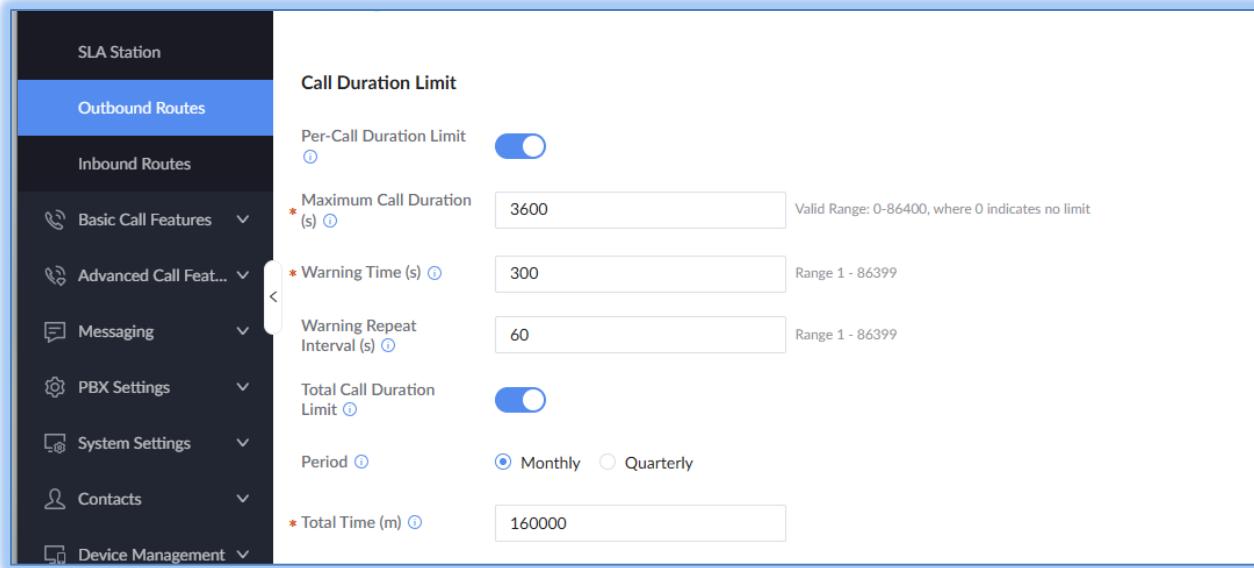


Figure 20 - Outbound Route Call Duration Limit

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**.

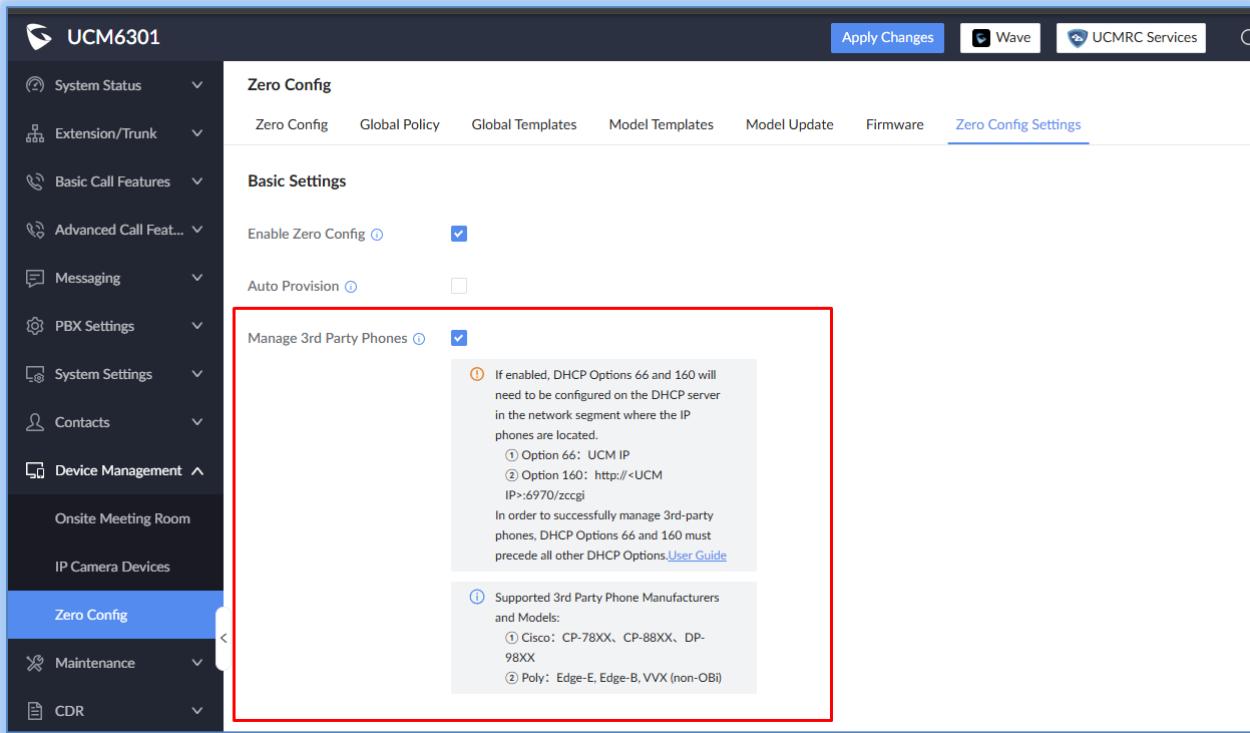


Figure 21 - Zero Config 3rd Party Phones

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.