

Grandstream Networks, Inc.

UCM6xxx Series

Mitel PMS Integration Guide





Table of Content

INTRODUCTION	5
SUPPORTED PMS FEATURES	6
Check-in	
Check-out	
Name Change	
Set Credit	
Set Station Restriction	
Wake-up Call	
Wake-up Call Action Status	
Wake-up Call Types	
Single	
Daily	
Wake-up Answer Status	
Answered	
Rejected	
No Answer	8
Error	8
Mini Bar	9
UCM6XXX CONFIGURATION	10
Create Extensions	10
Configure UCM6XXX with PMS Server	10
Room Management	11
Wake Up Service	13
Mini Bar	
Create New Mini Bar	14
Create New Maid	14
Create Consumer Goods	15
Using Mini Bar	17
CREATE CUSTOM PROMPT	17
Record New Custom Prompt	17
Upload Custom Prompt	





Table of Figures

Figure 1: UCM & PMS interaction	5
Figure 2: Check-in	6
Figure 3: Check-out	6
Figure 4: Add/Replace/Delete Name	6
Figure 5: Set Credit	7
Figure 6: Wake-up Call Cancelled	7
Figure 7: Single Wake-up Calls	8
Figure 8: Daily Wake-up Calls	8
Figure 9: Wake-up Call Answered	8
Figure 10: Wake-up Call Busy	8
Figure 11: Wake-up Call No Answer	8
Figure 12: Wake-up Call Error	9
Figure 13: PMS Feature Codes	10
Figure 14: PMS Basic Settings - Mitel	11
Figure 15: Create a New Room	11
Figure 16: Delete Selected Rooms	12
Figure 17: Batch Add Rooms	12
Figure 18: Room Status	12
Figure 19: Create New Wake Up Service	13
Figure 20: Wake Up Call Executed	13
Figure 21: Create New Mini Bar	14
Figure 22: Create New Maid	15
Figure 23: Create New Consumer Goods	15
Figure 24: Edit Consumer Goods.	16
Figure 25: Mini Bar	16
Figure 26: Customize Prompt	17
Figure 27: Record New Prompt	17
Figure 28: Custom Prompt	18
Figure 20: Unload Custom Prompt	18





Table of Tables

Table 1: PMS Supported Features	6
Table 2: PMS Basic Settings	10
Table 3: PMS Wake Up Service	13
Table 4: Create New Mini Bar	14
Table 5: Create New Maid	15
Table 6: Consumer Goods	





INTRODUCTION

Property Management System is a software application used in the hospitality industry to automate some hotel functions such as guest booking, guest details, etc...

The system can be divided into two parts:

- PMS (Property Management System)
- PBX

Grandstream UCM6XXX series have integrated Mitel PMS providing following hospitality features: Checkin, Check-out, set Room Status, Wake-up call and more.

The following figure illustrates the communication flow between the PBX (Grandstream UCM6xxx Series) and PMS software (Mitel). The communication between both parties is direct with no middleware.

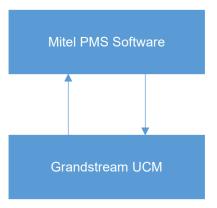


Figure 1: UCM & PMS interaction





SUPPORTED PMS FEATURES

The UCM6xxx supports the following features using Mitel PMS Systems.

Table 1: PMS Supported Features



Check-in

Check-in feature is used to store information such as Room Number, Extension, Username, Guest Account, Guest Credit Money, Maid Code, Arrival/Departure Date upon guest arrival. Guest language can also be received from PMS to customize phone system prompts (if possible).



Figure 2: Check-in

Check-out

Check-out feature is used upon guest departure to clear stored data at check-in and restore extension's default settings including language, privileges and deleting all voicemails on that extension. The "Room Status" will be set to "checkout".



Figure 3: Check-out

Name Change

Name Change feature is used to add a name, delete or replace it from Mitel PMS system.

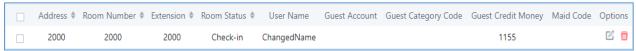


Figure 4: Add/Replace/Delete Name





Set Credit

This feature is used to set the guest credit money, PMS send the set credit command to set the guest money credit on the UCM6XXX.



Figure 5: Set Credit

Set Station Restriction

This feature is used to set restriction on the extension permission.

4 level of permissions are allowed on the extensions:

- Internal
- Local
- National
- International.

The PMS send the restriction command to the UCM6XXX, and the UCM update the permission on the extension.

Wake-up Call

Wake-up feature is used to make the extension ring upon PMS signal.

The UCM sends a notification message to the PMS including time and date of answered call in order for the system to repeat (or not) the wake-up call.

Wake-up Call Action Status

- When setting up a Wake-up call on the PMS, UCM6XXX initially sets "Action Status" to **Programmed**.
- Once the call is made, UCM6XXX sets "Action Status" to Executed.
- Programmed Wake-up calls can be Cancelled from the PMS, the UCM will update the Action Status to Cancelled as shown on the following figure.

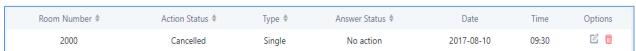


Figure 6: Wake-up Call Cancelled

Wake-up Call Types

Two types of wake-up call are available:

Single

The call will be repeated once at the programmed time.





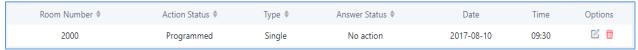


Figure 7: Single Wake-up Calls

Daily

The call will be repeated each day at the programmed time.



Figure 8: Daily Wake-up Calls

Wake-up Answer Status

Three Answer Statuses are available in response to the Wake-up call:

Answered

If the guest answers the wake-up call, UCM6XXX will set "Answer Status" to Answered.

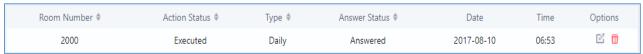


Figure 9: Wake-up Call Answered

Rejected

If the guest rejects the wake-up call, UCM6XXX will set "Answer Status" to Busy.

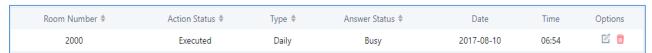


Figure 10: Wake-up Call Busy

No Answer

If the guest doesn't answer the wake-up call after timeout, UCM6XXX will set "Answer Status" to **No Answer**.



Figure 11: Wake-up Call No Answer

Error

If an error occurs during the wake-up call, UCM6XXX will set "Answer Status" to Error.





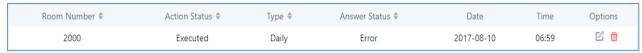


Figure 12: Wake-up Call Error

Mini Bar

Mini Bar feature is used by the maid to monitor the consumer's goods.

Users need to create first a mini bar and the maid code to consult the goods, please refer to **Mini Bar** for more details.





UCM6XXX CONFIGURATION

We are using the UCM63xx firmware 1.0.9.8 as an example in the following configuration illustration.

Create Extensions

To configure the UCM6XXX with a PMS Server, users need first to create some extensions on the UCM6XXX that will be associated with guests' rooms.

To create or modify existing extensions, log in to the UCM6XXX's by typing its address on a browser, then go to Extension/Trunk→Extensions.

Configure UCM6XXX with PMS Server

To use all PMS features, make sure that the following feature codes are configured from UCM6XXX Web GUI→Call Features→Feature Codes→Feature Codes:

- Update PMS Room Status
- PMS Wake Up Service

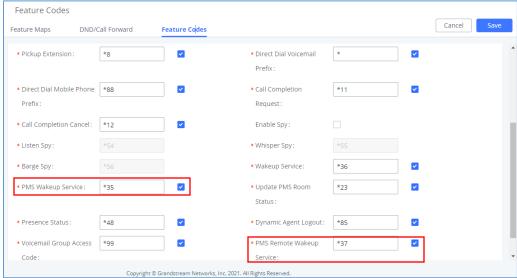


Figure 13: PMS Feature Codes

Navigate to **Value-added Features >PMS >Basic settings**, the following table explains the fields needed to be configured to set the connection for PMS system.

Table 2: PMS Basic Settings

Field	Description
PMS Module	Select Mitel to use Mitel PMS system features
Wake Up Prompt	Choose the prompt to be played upon Wake-Up call request, users can click on Prompt to upload a customer prompt to the UCM6XXX.
UCM Port	Enter the UCM6XXX's port to use when communicating with Mitel PMS system.





Back Up Voicemail Recordings

Back up voicemail recordings to external storage after check-out. Users can choose the external storage to be an SD card, USB, NAS, SFTP server or setup an email address (Email Settings need to be preconfigured in this case).

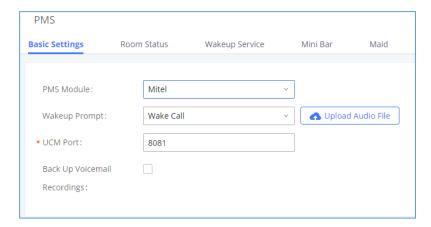


Figure 14: PMS Basic Settings - Mitel

Room Management

Users can then create and manage Rooms from Value-added Features → PMS → Room Status:

• Click Create New Room to Create a new room for a guest.

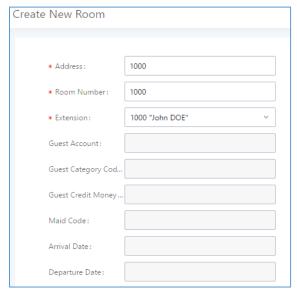


Figure 15: Create a New Room

• Click on **Delete Selected Rooms** to delete any selected room.





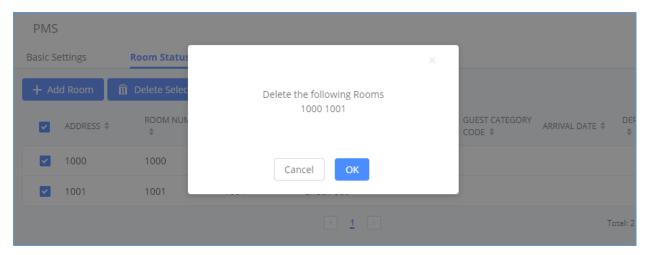


Figure 16: Delete Selected Rooms

• Click on Batch Add Rooms to create multiple rooms at the same time.

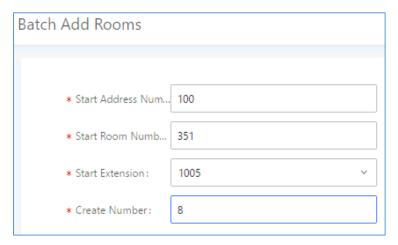


Figure 17: Batch Add Rooms

• User can also click on next to a room to delete it, or click on to edit the room's options.

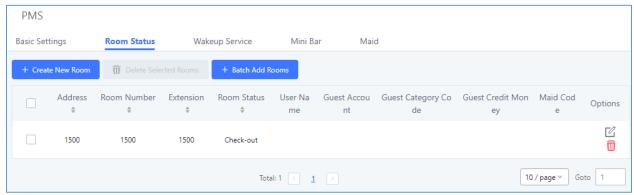


Figure 18: Room Status





Wake Up Service

Users can create a New Wake Up service for Rooms from Value-added Features→PMS→Wake Up Service.

Click on Create New Wake Up Service, the following window will pop up:

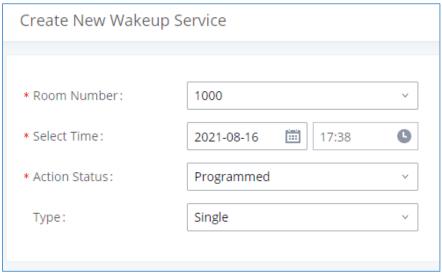
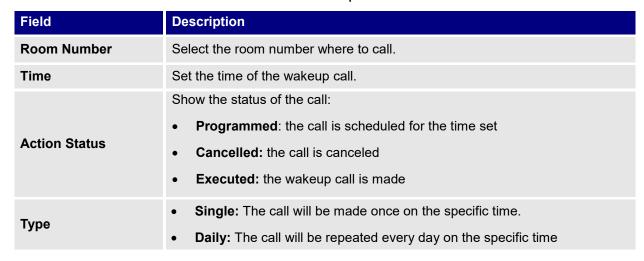


Figure 19: Create New Wake Up Service

Please refer to the following table for fields description of Wake-Up Service:

Table 3: PMS Wake Up Service



The following figure shows the status of the wakeup call once the call is made at the specified time

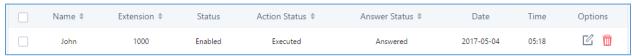


Figure 20: Wake Up Call Executed





Mini Bar

Create New Mini Bar

To create a new mini bar, click on + Create New Mini Bar under UCM webGUI→Value-added Features→PMS→Mini Bar, the following window will pop up:

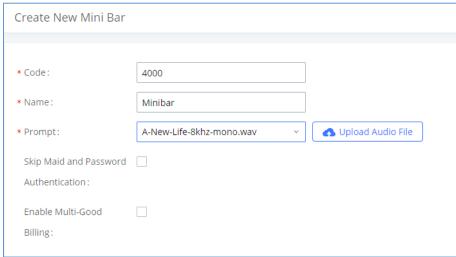


Figure 21: Create New Mini Bar

Table 4: Create New Mini Bar

Code	Enter a non-existing extension number to be dialed when using the mini bar feature.	
Name	Enter a name for the mini bar.	
Prompt	Select the Prompt to play once connected to the mini bar.	
Skip Maid and Password Authentication	If enabled, the default maid code will be 0000, no authentication is required. Enter 0000 followed by # to access the consumer goods.	
Enable Continuous Multi Goods Billing	If enabled, please separate the goods' codes by * (star).	

To create a new prompt please refer to CREATE CUSTOM PROMPT

Create New Maid

Once the Mini Bar created, a new maid needs to be created to consult the consumer goods.

To create a new maid, click on + Create New Maid under UCM webGUI→Value-added Features→PMS→Mini Bar, the following window will popup:





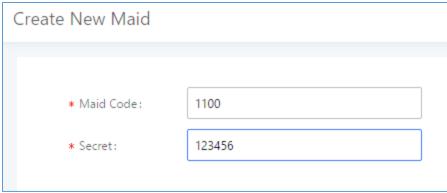


Figure 22: Create New Maid

Table 5: Create New Maid

Maid Code	Enter a code to identify the new maid. Only digits accepted. This code is required to identify the maid when checking consumer's goods.
Secret	Enter a password associated with the maid. Only digits accepted.

User could either edit the "Maid" secret by clicking on , or delete a maid by clicking on to remove the selected maid.

Create Consumer Goods

Create then the consumer goods and set associated prompts to them.

• To create a new consumer goods, click on webGUI→Value-added Features→PMS→Mini Bar, the following window will popup:

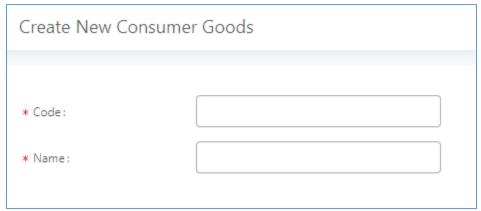


Figure 23: Create New Consumer Goods

Table 6: Consumer Goods

Code	Enter the Goods Code.
Name	Enter the Name of the Goods

• Users could edit the created consumer goods by clicking on , All the parameter could be changed (Name, Success Prompt, Failure Prompt) except for the consumer goods "Code" as shown below:







Figure 24: Edit Consumer Goods.

To delete a consumer goods user could click on to remove the item.

The Minibar page shows as following:

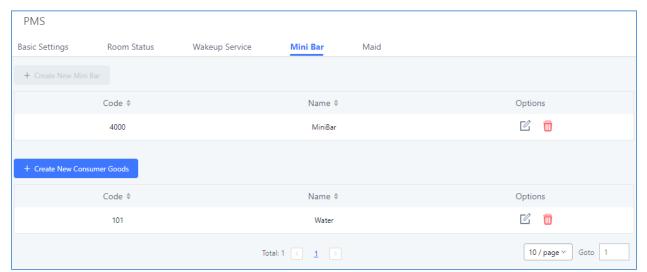


Figure 25: Mini Bar





Using Mini Bar

To use Mini Bar feature, follow the steps below:

- 1. Make a call to the Mini Bar extension (4000 in this example), a voice prompt will be played.
- 2. Enter the Maid Code followed by star and the password followed by pound (example: 1100*123456#).
- 3. Type the consumer's code that the Maid wants to check followed by pound (example: 101#).

CREATE CUSTOM PROMPT

Prompts on PMS can be customized/personalized at customer's convenience by either recoding or uploading new prompts. Click on "Upload Audio File" option as shown on the following figure to be redirected to "Custom Prompt" page, or go to Web GUI > PBX Settings > Voice Prompt > Custom Prompt page directly.

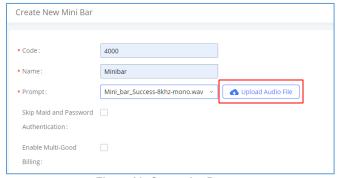


Figure 26: Customize Prompt

Once the PMS prompt file (created/uploaded) is successfully added to the UCM6xxx, it will be shown in the prompt list options to select in different PMS scenarios.

Record New Custom Prompt

In the UCM6xxx web UI→PBX Settings→Voice Prompt→Custom Prompt page, click on and follow the

+ Record New Custom Prompt steps below to record new prompt.

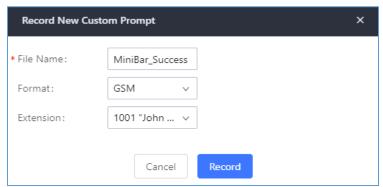


Figure 27: Record New Prompt





- 1. Specify the custom prompt file name.
- 2. Select the format (GSM or WAV) for the prompt file to be recorded.
- 3. Select the "Extension" to receive the call from the UCM6xxx to record the prompt.
- 4. Click the "Record" button. A call will be initiated to the selected extension.
- 5. Pick up the call and start the recording following voice prompts.
- 6. The recorded file will be listed in the Custom Prompts page (see figure 30). Users could select to rerecord, play or delete the recording.

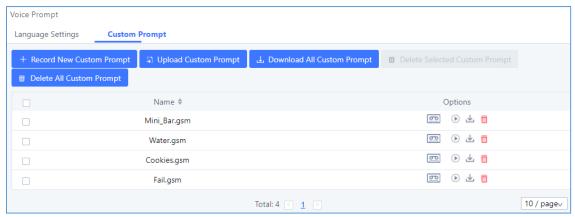


Figure 28: Custom Prompt

Upload Custom Prompt

If the user has a pre-recorded prompt file, navigate on in Web GUI under PBX Settings→Voice Prompt→Custom Prompt page to upload the file to the UCM6xxx. Following are PMS prompt requirements to be accepted by UCM6xxx series:

- PCM encoded.
- 16 bits.
- 8000Hz mono.
- In .mp3 or .wav format; or raw/ulaw/alaw/gsm file with ".ulaw" or ".alaw" suffix.
- File size under 5M.

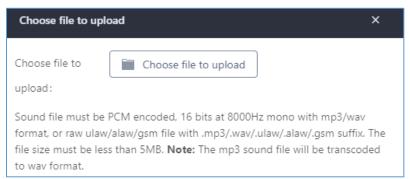


Figure 29: Upload Custom Prompt

Click on button to select audio file from local PC and click on it to start uploading it. Once uploaded, the file will appear in the "Custom Prompt" web page.

