



# **FIBERME Communications LLC.**

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FCM630A Audio Series IP PBX

**PMS API Guide**

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## INTRODUCTION

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

FIBERME FCM630A have integrated multiple PMS platforms (i.e. HSC, Mitel, HMobile) providing following hospitality features: Changing Display Name, Permission, Call forwarding, DND and more.

Starting from firmware 1.0.9.11, PMS API is now supported to offer Hotel action with the FCM630A via HTTPS API. The API format is defined by FIBERME and this guide will help users configure and authenticate in order to use PMSAPI

This guide will focus on the CDR API old configuration and for more details about the new supported API, please refer to the following link:

[http://download.fiberme.com/docs/FCM630A\\_API\\_Guide.pdf](http://download.fiberme.com/docs/FCM630A_API_Guide.pdf)



## CONNECTION AND AUTHENTICATION

PMSAPI works on HTTPS, the URL format syntax is as follows:

**HTTPS://[FCMIP]:[Port]/pmsapi?token=[token]&data=[value]&format=xml**

From this URL we can see three needed parameters: Token, Data and Format where:

<b>Token:</b>	Token is used for PMSAPI Authentication when doing actions such as check-in, check-out... Refer to [Authentication Token]
<b>Format:</b>	Format that is used to mark which format the data is, such as xml;
<b>Data:</b>	Data the action data that will be used. Refer to [DATA FORMAT ]

For example:

**[https://192.168.124.63:8443/pmsapi?token=63E780C3F321D13109C71BF81805476E&format=xml&data=<pms\\_data\\_request><checkin><address>1100</address><name>jjkk</name><extension>1100</extension><datein>20180202</datein><dateout>20180203</dateout></checkin></pms\\_data\\_request>](https://192.168.124.63:8443/pmsapi?token=63E780C3F321D13109C71BF81805476E&format=xml&data=<pms_data_request><checkin><address>1100</address><name>jjkk</name><extension>1100</extension><datein>20180202</datein><dateout>20180203</dateout></checkin></pms_data_request>)**

### Authentication

The PMSAPI needs two authentication steps, one, which is used to connect, and the other for data.

**Note:** This guide will focus on the PMS API old configuration and for more details about the new supported API, please refer to the following link:

[http://download.fiberme.com/docs/FCM630A\\_API\\_Guide.pdf](http://download.fiberme.com/docs/FCM630A_API_Guide.pdf)

#### Step1:

Under FCM's WebGUI go to **Value-added Feature** → **API Configuration** → **HTTPS API Settings(Old)** → **Basic Settings**, check Enable option under Basic Settings, then Enable PMSAPI as well, users may also change and configure other fields such as Username and password please check below screenshot.



Figure 1: HTTPS API Settings(Old)

## Step 2:

Under the FCM's WebGUI go to **Value-added Feature** → **PMS** → **Basic Settings** , choose PMS Module as PMSAPI and configure the username and password, we can also go to Room Status to create rooms or go to Wakeup Service, Mini Bar, Maid to configure them as well depending on the users requirement. Then save and apply the changes.



The screenshot displays the 'PMS Basic Settings' configuration page. On the left, a blue sidebar menu lists various system settings, with 'PMS' highlighted. The main content area features a header with tabs: 'Basic Settings', 'Room Status', 'Wakeup Service', 'Mini Bar', and 'Maid'. The 'Basic Settings' tab is selected, revealing the following configuration options:

- PMS Module:** A dropdown menu set to 'PMSAPI'.
- Wakeup Prompt:** A dropdown menu set to 'Wake Call', accompanied by an 'Upload Audio File' button.
- \* Username:** A text input field containing 'username'.
- \* Password:** A text input field containing 'password'.
- Back Up Voicemail Recordings:** An unchecked checkbox.

**Figure 2: PMS Basic Settings**

## Connection

To authenticate the connection, we should use the username and password on the API Configuration Page, in order to do Digest authentication.

## Authentication Token

This token is used on the URL, and created with the username and password configured on the PMS page, use md5 to encrypt username and password.

**Token = MD5(username+password)**



**Example:**

The screenshot shows a web interface for PMS configuration. At the top, there are tabs for 'Basic Settings', 'Room Status', 'Wakeup Service', 'Mini Bar', and 'Maid'. The 'Basic Settings' tab is active. Below the tabs, there are several configuration fields: 'PMS Module' is a dropdown menu set to 'PMSAPI'; 'Wakeup Prompt' is a dropdown menu set to 'Wake Call', with an 'Upload Audio File' button to its right; '\* Username' is a text input field containing 'admin1'; '\* Password' is a text input field containing 'admin123'; 'Back Up Voicemail' is a checkbox that is unchecked; and 'Recordings:' is a label without a corresponding input field.

**Figure 3: PMS Basic Settings**

And then using any MD5 generator we can generate the authentication token as showing in below figure

The screenshot shows an online MD5 generator tool. At the top, there is a text input area containing the string 'admin1admin123'. Below this are several buttons: 'Generate', 'Clear All', 'SHA1', 'SHA256', 'SHA512', and 'Password Generator'. A checkbox labeled 'Treat each line as a separate string' is unchecked. Below the buttons, the text 'MD5 Hash of your string:' is followed by the generated hash '3FAF8662B93EF7B8B359C0DFD18696D3', which is underlined in red.

**Figure 4: Generating Auth Token**





## DATA FORMAT

Below is data format of all supported PMSAPI actions on firmware 1.0.9.11, this can be updated in future firmware.

### Responses

The response of PMSAPI includes a code and description. For example:

If an action is successful, it will get the response message "[0] SUCCESS !".

Other codes and descriptions can be found on below table.

Table 1: Data format

Code	Description
26	First name or last name too long !
25	First name or last name too long !
24	Dest address already checked in !
23	Dest address not exist !
22	Cleaning or repairing, cannot check in or be mov to !
21	PMSAPI not enable !
20	Not checked in !
19	Already checked in !
18	Address error !
17	Address and room not match !
16	Auth error !
15	In data error !
14	Format error !
13	No support action !
12	XML data error !
0	Success !
-100	Success, but language error, not set !
-9	Action error !



## API COMMANDS AND EXAMPLES

In this chapter, we will show different actions as well as related examples and description:

### Check-in

Check-in action is used to notify the arrival a Guest, below table shows the data and values to be configured.

Table 2: Check-in

Data	Description
<b>address</b>	Room or extension, identifier recognized by destination
<b>room</b>	Room number. It may be equal, or not, to the address value
<b>account</b>	Guest account number
<b>firstname</b>	Guest firstname
<b>lastname</b>	Guest lastname
<b>language</b>	Guest language
<b>vipcode</b>	Guest VIP code
<b>datein</b>	Arrival date, format YYYY/MM/DD hh:mm
<b>dateout</b>	Departure date, format YYYYMMDD hh:mm
<b>credit</b>	Guest credit money.
<b>cos</b>	Call permission 1 < 2 < 3 < 4
<b>cidnumber</b>	Cid number

- **Example**

```
</pms_data_request>
<pms_data_request>
<checkin>
  <address>1100</address>
  <room>1100</room>
  <account>1100</account>
  <firstname>John</firstname>
  <lastname>Doe</lastname>
  <language>EN</language>
  <vipcode>2</vipcode>
  <datein>2010/01/01 11:00</datein>
  <dateout>2010/01/07 13:00</dateout>
  <credit>9999900</credit>
  <cidnumber>11001100</cidnumber>
  <cos>3</cos>
</checkin>
```



## Check-out

Check-out action is used to notify the departure a Guest, below table shows the data and values to be configured

Table 3: Check-out

Data	Description
<b>address</b>	Source address, Room or extension, identifier recognized by destination
<b>room</b>	Source room, Room number, It may be equal, or not, to the address value

- **Example**

```
</pms_data_request>
<pms_data_request>
<checkout>
  <address>1100</address>
  <room>1100</room>
</checkout>
```

## Update

Update action is used to update data of a Guest, below table shows the data and values to be configured

Table 4: Update

Data	Description
<b>address</b>	Room or extension, identifier recognized by destination
<b>room</b>	Room number, It may be equal, or not, to the address value
<b>account</b>	Guest account number
<b>firstname</b>	Guest firstname
<b>lastname</b>	Guest lastname
<b>language</b>	Guest language
<b>vipcode</b>	Guest VIP code
<b>datein</b>	Arrival date, format YYYY/MM/DD hh:mm
<b>dateout</b>	Departure date, format YYYYMMDD hh:mm
<b>credit</b>	Guest credit money.
<b>cos</b>	call permission 1 < 2 < 3 < 4
<b>cidnumber</b>	Cid number



- **Example**

```
<pms_data_request>
<update>
  <address>1100</address>
  <room>1100</room>
  <account>1100</account>
  <firstname>John</firstname>
  <lastname>Doe</lastname>
  <language>EN</language>
  <vipcode>2</vipcode>
  <datein>20100101</datein>
  <dateout>20100107</dateout>
  <credit>9999900</credit>
  <cidnumber>11001100</cidnumber>
  <cos>3</cos>
</update>
</pms data request>
```

## Mov

Mov action is used to notify the room change of a Guest, below table shows the data and values to be configured.

Table 5: Mov

Data	Description
<b>address</b>	Source address, Room or extension, identifier recognized by destination
<b>room</b>	Source room, Room number, it may be equal, or not, to the address value
<b>d_address</b>	Destination address, Room or extension, identifier recognized by destination
<b>d_room</b>	Destination room, Room number, It may be equal, or not, to the address value

- **Example**

```
<pms_data_request>
<mov>
  <address>1046</address>
  <room>1046</room>
  <d_address>1100</d_address>
  <d_room>1100</d_room>
</mov>
</pms_data_request>
```



## Wakeup

Wakeup action is used to notify the guest for wakeup call, below table shows the data and values to be configured

Table 6: Wakeup

Data	Description
<b>address</b>	Room or extension, identifier recognized by destination
<b>room</b>	Room number, It may be equal, or not, to the address value
<b>w_action</b>	Action ID, 1 = set. 0 = cancel
<b>w_mode</b>	Mode: 1 = single (default). 2 = daily.
<b>w_date</b>	wakeup date format YYYYMMDD
<b>w_time</b>	wakeup time format HHMM

- **Example**

```
<pms_data_request>
<wakeup>
  <address>1100</address>
  <room>1100</room>
  <w_action>1</w_action>
  <w_mode>1</w_mode>
  <w_date>20140101</w_date>
</wakeup>
</pms_data_request>
```

