


Oct 27, 2020 21:54

## Ascom IP-DECT Base Station Integration

 This guide describes the configuration for the Ascom IP-DECT base station Integration.

Requirements:

- [WMS](#) version: 3.88 or higher
- Wildix [UC-Business](#) or [UC-Premium](#) license

Created: September 2020

Permalink: <https://confluence.wildix.com/x/0QGmB>

### Supported devices

- [IP-DECT access point](#)
- [IP-DECT gateway](#)
- [TDM-DECT base station](#)

- [Configuring the Ascom IP-DECT Base Station](#)
  - [DECT: System](#)
  - [DECT: Master](#)
  - [DECT: Crypto Master](#)
  - [DECT: Mobility Master](#)
  - [DECT: Radio](#)
  - [DECT: Radio config](#)
  - [DECT: PARI](#)
  - [DECT: SARI](#)
  - [DECT: Air Sync](#)
- [Users: Users](#)
- [DECT Phones subscription](#)

## Configuring the Ascom IP-DECT Base Station

### DECT: System

System	Suppl. Serv.	Master	Crypto Master	Mobility Master	Radio	Radio config	PARI	SARI	Air Sync
System Name	<input type="text" value="DECT"/>								
Password	<input type="password" value="*****"/>								
Confirm Password	<input type="password" value="*****"/>								
Subscriptions	<input type="text" value="With System AC"/>								
Authentication Code	<input type="text" value="1234"/>								
Tones	<input type="text" value="EUROPE-PBX"/>								
Default Language	<input type="text" value="English"/>								
Frequency	<input type="text" value="1880-1900 MHz (Europe)"/>								
Enabled Carriers	9 8 7 6 5 4 3 2 1 0 <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>								
Local R-Key Handling	<input checked="" type="checkbox"/>								
No Transfer on Hangup	<input type="checkbox"/>								
No On-Hold Display	<input type="checkbox"/>								
Display Original Called	<input type="checkbox"/>								
Early Encryption	<input type="checkbox"/>								
RFP Location	<input type="checkbox"/>								
Disable ICE	<input type="checkbox"/>								
Coder	<input type="text" value="G711A"/> Frame (ms) <input type="text" value="20"/> Exclusive <input type="checkbox"/> SC <input type="checkbox"/>								
Secure RTP Key Exchange	<input type="text" value="No encryption"/>								
<input type="button" value="OK"/> <input type="button" value="Cancel"/>									

**DECT: Master**

System	Suppl. Serv.	Master	Crypto Master	Mobility Master	Radio	Radio config	PARI	SARI	Air Sync
Mode: Active									
Multi-Master									
Master ID	0								
Enable PARI Function	<input checked="" type="checkbox"/>								
Region Code									
IP-PBX									
Protocol	SIP/UDP								
Proxy	192.168.133.14								
Alt. Proxy									
Alt. Proxy									
Alt. Proxy									
Domain									
Max. Internal Number Length	3								
International CPN Prefix									
Registration with system password	<input type="checkbox"/>								
Enbloc Dialing	<input checked="" type="checkbox"/>								
Enable Enbloc Send-Key	<input checked="" type="checkbox"/>								
Send Inband DTMF	<input checked="" type="checkbox"/>								
Allow DTMF Through RTP	<input checked="" type="checkbox"/>								
Short Disconnect Tone	<input type="checkbox"/>								
Treat rejected calls as	Rejected								
Configured With Local GK	<input type="checkbox"/>								
SIP Interoperability Settings									
Registration Time-To-Live	120 [sec]								
Hold Signalling	sendonly								
Hold Before Transfer	<input type="checkbox"/>								
Accept Inbound Calls Not Routed Via Home Proxy	<input type="checkbox"/>								
Register With Number	<input type="checkbox"/>								
AOR as Line Identity	<input type="checkbox"/>								
KPML support	<input type="checkbox"/>								

### DECT: Crypto Master

System	Suppl. Serv.	Master	Crypto Master	Mobility Master	Radio	Radio config	PARI	SARI	Air Sync
Mode: Off									
OK Cancel									

### DECT: Mobility Master

System	Suppl. Serv.	Master	Crypto Master	Mobility Master	Radio	Radio config	PARI	SARI	Air Sync
Mode: Off									
OK Cancel									

### DECT: Radio

The Radio code is a **unique** code for each installation.

System	Suppl. Serv.	Master	Crypto Master	Mobility Master	Radio	Radio config	PARI	SARI	Air Sync																				
Disable <input type="checkbox"/>																													
PARI Master																													
Name	<input type="text"/>																												
Password	<input type="text"/>																												
PARI Master IP Address	192.168.133.143																												
Alt. PARI Master IP Address	<input type="text"/>																												
Status	Connected to Master 192.168.133.143																												
Received Configuration																													
SARI																													
RFPI	9014F41008																												
Subscriptions	With System AC																												
Authentication Code	1234																												
Tones	EUROPE-PBX																												
Default Language	English																												
Frequency	1880-1900 Mhz (Europe)																												
Enabled Carriers	<table border="0"> <tr> <td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>0</td> </tr> <tr> <td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td> </tr> </table>									9	8	7	6	5	4	3	2	1	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9	8	7	6	5	4	3	2	1	0																				
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																				
Local R-Key Handling	enabled																												
Send inband DTMF	enabled																												
Short disconnect tone	disabled																												
No Transfer on Hangup	disabled																												
No On-Hold Display	disabled																												
Display Original Called	disabled																												
Early Encryption	disabled																												
RFP Location	disabled																												
ICE	enabled																												
Coder	G711A, 20 ms																												
Secure RTP Key Exchange	No encryption																												
Region Code																													
OK		Cancel		Overall DECT System Configuration																									

**DECT: Radio config**

System	Suppl. Serv.	Master	Crypto Master	Mobility Master	Radio	Radio config	PARI	SARI	Air Sync
--------	--------------	--------	---------------	-----------------	-------	--------------	------	------	----------

Offer Parameters

Information  
If a value is set on this page this will have precedence over values configured locally or received via DHCP options.

Events and Alarms Forward Server

Type

IP Address

Port

Update

Command File URL

Interval [min]

Network Time

Time Server

Alt. Time Server

Interval [min]

Timezone

Format String

Priority/DiffServ

ToS Priority  (comma separated RTP and Signalling, e.g."0xb8,0x68")

Port Ranges

First UDP-RTP Port  Number of Ports

OK Cancel

**DECT: PARI**

System	Suppl. Serv.	Master	Crypto Master	Mobility Master	Radio	Radio config	PARI	SARI	Air Sync
--------	--------------	--------	---------------	-----------------	-------	--------------	------	------	----------

System ID

OK Cancel

**DECT: SARI**

The SARI code is a **unique** code for each installation.

System	Suppl. Serv.	Master	Crypto Master	Mobility Master	Radio	Radio config	PARI	SARI	Air Sync
--------	--------------	--------	---------------	-----------------	-------	--------------	------	------	----------

**SARI**

OK Cancel

**DECT: Air Sync**

System   Suppl. Serv.   Master   Crypto Master   Mobility Master   Radio   Radio config   PARI   SARI   Air Sync

Sync Mode: Master

Reference RFPI:

Alternative reference RFPI:

Sync Region: 0

Action at reference sync failure:  Resynchronize on command  
 Resynchronize every day at 01:00  
 Resynchronize every Sunday at 00:00

OK   Cancel

## Users: Users

**IP-DECT Base Station**

Configuration: **Users**   Anonymous

General

LAN

IP

LDAP

DECT

VoIP

Unite

Services

Administration

Users

Device Overview

DECT Sync

Traffic

Gateway

Backup

Update

Diagnostics

Reset

PARK 31100422072149  
 PARK  
 3rd   2110024755  
 Master  
 Id   0

show  
 new  
 import  
 export

User Administrators

Long Name   Name

User Administrators: 0

Users

Long Name	Name	No	Fty	Display	IPEI / IPDI	AC	Prod	SW	EE	Registration
DECT ASCOM	259	259	+	Phone 259	110550417330					Subscribed
DECT ASCOM2	260	260	+	Phone 260	110550454052	d63-Messenger	1.48.89			192.168.133.14

Users: 2, Registrations: 1

**Edit User**

Not Secure   https://192.168.133.143/GW-DECT/mod\_cmd\_login.xml?c...

User type  
 User  
 User Administrator

Long Name: DECT ASCOM  
 Display Name: 259  
 Name: 259  
 Number: 259  
 Auth. Name: 259 (SIP only)  
 Password: \*\*\*\*\*  
 Confirm Password: \*\*\*\*\*  
 IPEI / IPDI: 110550417330  
 Idle Display: Phone 259  
 Auth. Code:   
 Feature Status:

OK   Apply   Delete   Unsubs.   Cancel

## DECT Phones subscription

Once the BS and the Wildix WMS are configured, we can subscribe to the DECT phones to the [base station](#), following the Ascom guide.

Once the phone is connected to the BS, we can login by dialing **\*x\*yyyy\*zzzz#**:

- **x** is the home Master-id for this user
- **yyyy** is the Number you want login to
- **zzzz** is the Authentication Code for this user (if used)