

## Configuring Spectralink IP-DECT Server 400/6500 and DECT Server 2500/8000 for Cisco Unified Call Manager

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	<p>device name when the device is added to the Cisco Unified CM.</p> <p>Note: The IP-DECT Server will generate this value when the user is saved and it will be re-generated if the username/extension is changed.</p> <p>Note: This information is not displayed if the Cisco Unified CM license is not loaded into the IP-DECT Server.</p>
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### User 2000

DECT device	
Model	Spectralink Butterfly
Software part number	14208700
Firmware	13M
HW version	5E
Production Id	000B FD35 D194 4F25
IPEI	<input type="text" value="05003 0229363"/>
Access code	<input type="text"/>
User	
Standby text	<input type="text" value="Ext. 2000"/>
Disabled	<input type="checkbox"/>
SIP	
Username / Extension *	<input type="text" value="2000"/>
Domain	<input type="text"/>
Displayname	<input type="text" value="Spectralink 2000"/>
Authentication user	<input type="text"/>
Authentication password	<input type="text"/>
CUCM device name	SEP7EA451BED8A8
Features	
Call forward unconditional	<input type="text"/>

When the users have been added to the IP-DECT Server the handsets must be DECT subscribed in order to be able to communicate with the IP-DECT Server. Please refer to the handset documentation for this.

## Bulk Provisioning for Cisco Unified CM

The IP-DECT Server supports Cisco Unified CM bulk administration of phones. The IP-DECT Server can export a CSV file that can be used directly to import new phones into the Cisco Unified CM.

The CSV file can be generated by clicking to:

Users -> Import/Export

Click on the Save button next to “CSV format Cisco Unified CM” and download the CSV file. This file can later on be imported directly into the Cisco Unified CM.

### Import/Export Users

Import user data	
CSV format	<input type="text"/> <input type="button" value="Browse..."/> <input type="button" value="Load"/>
Encoding	<input checked="" type="radio"/> UTF-8 <input type="radio"/> ISO/IEC 8859-1 <input type="radio"/> Windows-1252
Export user data	
CSV format	<input type="button" value="Save"/>
CSV format Cisco Unified CM	<input type="button" value="Save"/>
XML format	<input type="button" value="Save"/>
Delete users	
Delete all users	<input type="button" value="Delete"/>

Example of a CSV file for Cisco Unified CM:

	A	B	C
1	MAC ADDRESS	DESCRIPTION	DIRECTORY NUMBER 1
2	SEP1A54B9EF6002	DECT 2601	2601
3	SEP8558BDBEE189	DECT 2602	2602
4	SEPC639A53C244C	DECT 2604	2604
5			

## Cisco Unified Call Manager

The following part of the document describes how to prepare the Cisco Unified CM and add the DECT handsets.

Each individual DECT handset must be added as a device in Cisco Unified CM and the IP-DECT Server itself will not be added and known to the Cisco Unified CM.

## COP file installation

A Cisco Unified CM COP file provided by Spectralink must be loaded into the Cisco Unified CM in order to add support for "Spectralink IP-DECT" devices.

Download the Spectralink COP file for Cisco Unified CM at [support.spectralink.com](http://support.spectralink.com).

The COP file can be installed by clicking to:

Cisco Unified OS Administration -> Software Upgrades -> Install/Upgrade

A FTP/SFTP server is required for this step.

Fill out the following in the Software Location form:

Source	Remote Filesystem
Directory	The path on the SFTP or FTP server
Server	The hostname or IP address of the SFTP or FTP server
Username	Username to login to the SFTP or FTP server
Password	Password to login to the SFTP or FTP server
Transfer Protocol	SFTP or FTP

The screenshot shows a configuration window with a 'Status' section at the top indicating 'Status: Ready'. Below it is the 'Software Location' section with the following fields:

- Source\*: Remote Filesystem (dropdown menu)
- Directory\*: / (text input)
- Server\*: 172.29.193.81 (text input)
- User Name\*: spectralinkftpupload (text input)
- User Password\*: [masked with dots] (password input)
- Transfer Protocol\*: FTP (dropdown menu)
- SMTP Server: (empty text input)
- Email Destination: (empty text input)

At the bottom of the form are 'Cancel' and 'Next' buttons.

When the form is completed click Next and Cisco Unified CM will contact the FTP/SFTP server and look for update files.

When the update files are listed select the COP (.cop.sgn) file and click Next. The Cisco Unified CM will download the COP file.



When the COP file is downloaded Cisco Unified CM will display the file checksum details. Check that everything looks correct and click Next. The Cisco Unified CM will start installing the COP file.

The installation will take a while. When it is successfully completed, restart the Cisco Unified CM to make sure that the changes take effect.

## Spectralink IP-DECT Device Setup

This chapter describes how to add the individual Spectralink DECT handsets to the Cisco Unified CM.

Each individual DECT handset is identified by a unique device name, which is generated by the IP-DECT Server. This can be compared to the MAC address, which identifies the Cisco IP Phones. The device name of a specific DECT handset can be viewed by editing the user in the IP-DECT Server.

Two different methods for adding handsets are supported:

- Manual
- Automated by using Cisco bulk provisioning/administration.

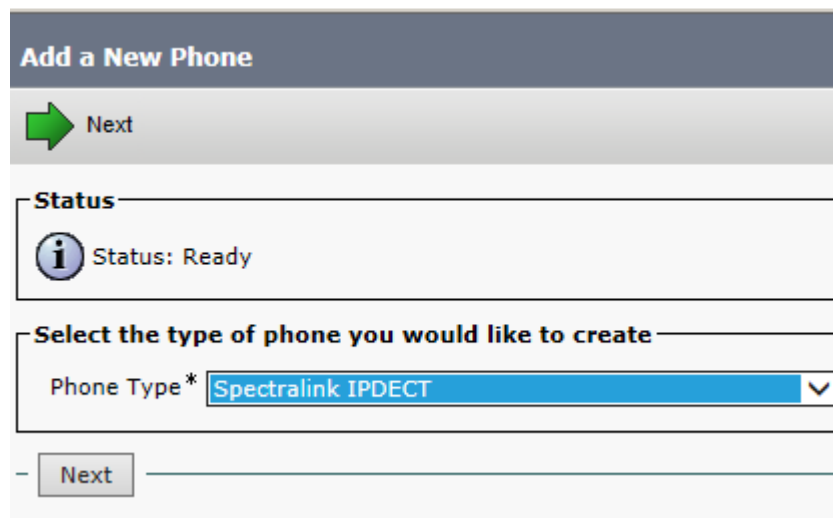
### Manual

In this section it is described how to manually add a Spectralink DECT handset to the Cisco Unified CM.


The handsets can be added by clicking to:

Cisco Unified CM Administration -> Device -> Phone -> Add new


Select "Spectralink IPDECT" from the list of phone types and click Next. (If this is not available please make sure that the COP file is installed correctly and that the Cisco Unified CM has been restarted afterwards)



**Add a New Phone**

 Next

**Status**

 Status: Ready

**Select the type of phone you would like to create**


Phone Type \* Spectralink IPDECT

Next

In the Phone Configuration page fill in at least the following fields:

Device name	Copy and paste the device name from the user on the IP-DECT Server into the Device Name field.
Device Pool	Select the desired device pool.
Phone Button Template	Select phone button template.
Device Security Profile	Under Protocol Specific Information select the desired Device Security Profile.
SIP Profile	Under Protocol Specific Information select the desired SIP Profile.

**Status**

 Status: Ready


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**Phone Type**

**Product Type:** Spectralink IPDECT  
**Device Protocol:** SIP

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**Device Information**

 Device is not trusted

Device Name*	SEP7EA451BED8A8	
Description	Spectralink Butterfly Phone	
Device Pool*	Default	<a href="#">View Details</a>
Common Device Configuration	< None >	<a href="#">View Details</a>
Phone Button Template*	Spectralink IPDECT default	
Common Phone Profile*	Standard Common Phone Profile	

...

**Protocol Specific Information**

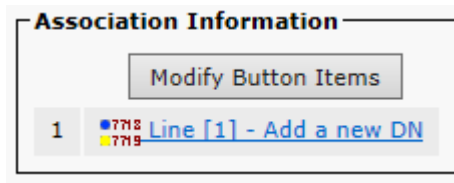
Packet Capture Mode*	None
Packet Capture Duration	0
BLF Presence Group*	Standard Presence group
MTP Preferred Originating Codec*	711ulaw
Device Security Profile*	Spectralink IPDECT - Standard SIP Non-Secure Prof
Rerouting Calling Search Space	< None >
SUBSCRIBE Calling Search Space	< None >
SIP Profile*	Standard SIP Profile
Digest User	< None >

Media Termination Point Required

Unattended Port

Early Offer support for voice and video calls (insert MTP if needed)

When the data is entered click Save and the Associated Information will appear. Click "Add a new DN".



In the Directory Number configuration page type in the desired Directory Number. This must be the same as the Username/Extension field in the user setup on the IP-DECT Server.

**Status**

Directory Number Configuration has refreshed due to a directory number cha

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**Directory Number Information**

Directory Number\*

Route Partition

Description

Alerting Name

ASCII Alerting Name

Active

When the desired information is entered click Save and go back to the list of devices. The Cisco Unified CM will show the registration status of the device.

<input type="checkbox"/>	Device Name(Line) ^	Description	Device Pool	Extension	Partition	Device Protocol	Status	IP Address
<input type="checkbox"/>	SEP7EA451BED8A8(1)	Spectralink Butterfly Phone	Default	2000		SIP	Registered with HORCUCM02	172.29.193.101

The registration should look like this on the IP-DECT Server list users page:

Show  entries Search:

Enabled	User	Displayname	IPEI	Handset	Firmware	Subscription	Registration
<input checked="" type="checkbox"/>	2000	Spectralink 2000	05003 0229363	Spectralink Butterfly	13M	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Showing 1 to 1 of 1 entries (filtered from 12 total entries) First Previous **1** Next Last

Note: It might take a while before the IP-DECT Server sends out a registration request. To speed up the registration process, either reboot the IP-DECT Server or disable/enable the user on the IP-DECT Server.

### Automated with Cisco Bulk Provisioning

When adding many handsets to the Cisco Unified CM it is beneficial to use bulk provisioning in order to automate the handset creation process. The process of bulk provisioning handsets consists of three steps. Make sure that the bulk provisioning service is activated, create templates for inserting the handsets and finally importing a CSV file containing the handset data.

To check that the “Cisco Bulk Provisioning Service” is active click to:

Cisco Unified Serviceability -> Tools -> Service Activation

Database and Admin Services		
	Service Name	Activation Status
<input checked="" type="checkbox"/>	Cisco Bulk Provisioning Service	Activated
<input checked="" type="checkbox"/>	Cisco AXL Web Service	Activated
<input checked="" type="checkbox"/>	Cisco UXL Web Service	Activated
<input checked="" type="checkbox"/>	Cisco TAPS Service	Activated

Next step is to create a phone template containing a line template. These templates define the default values for the handsets that will be inserted.


In order to define a phone template click to:

Cisco Unified CM Administration -> Bulk Administration -> Phones -> Phone template -> Add New

First, select the phone type “Spectralink IPDECT” and click Next. In the Phone Template Configuration page fill in the required parameters:

Template Name	Enter a name for the template.
Device Pool	Select the desired device pool.
Phone Button Template	Select phone button template.
Device Security Profile	Under Protocol Specific Information select the desired Device Security Profile.
SIP Profile	Under Protocol Specific Information select the desired SIP Profile.


**Status**

 Status: Ready

**Phone Type**

**Product Type:** Spectralink IPDECT  
**Device Protocol:** SIP

**Device Information**

 Device is not trusted

Template Name*	<input type="text" value="Spectralink_template"/>	
Description	<input type="text"/>	
Device Pool*	Default	<a href="#">View Details</a>
Common Device Configuration	< None >	<a href="#">View Details</a>
Phone Button Template*	Spectralink IPDECT default	
Common Phone Profile*	Standard Common Phone Profile	
Calling Search Space	< None >	
AAR Calling Search Space	< None >	
Media Resource Group List	< None >	
User Hold MOH Audio Source	< None >	
Network Hold MOH Audio Source	< None >	
Location*	Hub_None	

**Protocol Specific Information**

Packet Capture Mode*	None
Packet Capture Duration	0
BLF Presence Group*	Standard Presence group
MTP Preferred Originating Codec*	711ulaw
Device Security Profile*	Spectralink IPDECT - Standard SIP Non-Secure Prof
Rerouting Calling Search Space	< None >
SUBSCRIBE Calling Search Space	< None >
SIP Profile*	Standard SIP Profile
Digest User	< None >

Media Termination Point Required  
 Unattended Port  
 Early Offer support for voice and video calls (insert MTP if needed)

Click Save and the Association Information will appear. Click “Add a new DN” to add a line template to the device template.


**Association Information**

Modify Button Items

1 ■ 7718 ■ 7719 [Line \[1\] - Add a new DN](#)

Give the line template a name and click Save. Make sure that the phone template appears as an associated device and click Save again.

**Status**

 Status: Ready

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**Directory Number Information**

Line Template Name *	Spectralink_template_DN
Route Partition	< None >
Description	
Alerting Name	
ASCII Alerting Name	

Active

Go back to the phone template and click Save.

Next step is to import the CSV file exported from the IP-DECT Server using the phone template defined.


First, upload the CSV file to Cisco Unified CM by clicking to:

Cisco Unified CM Administration -> Bulk Administration -> Upload/Download Files

Click Add New and fill in the data:

File	Browse to the CSV file on the computer.
Target	Select Phones.
Transaction Type	Select Insert Phones – Specific Details.

**Status**

 Status: Ready

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**Upload the CSV file**

File: \*


Select The Target \*


Select Transaction Type \*

Overwrite File if it exists.\*\*

Click Save and the file will be uploaded to Cisco Unified CM. Check that the uploaded file is available in the list.

**Status**

 0 records deleted

 2 records found

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**File (1 - 2 of 2)**

Find File where  begins with  Using

	File Name ^	
<input type="checkbox"/>	bat.xlt	BAT Excel CSV Tool
<input type="checkbox"/>	users_export.csv	Insert Phones - Specific Details

When the CSV file is uploaded the DECT handsets can be inserted into the Cisco Unified CM by clicking to:

CUCM -> Cisco Unified CM Administration -> Bulk Administration -> Phones -> Insert Phones

insert Phones Specific Details	Select this
File Name	Select the file name uploaded in the previous step.
Phone Template Name	Select the phone template that was created for the IP-DECT handsets.
Run Immediately	Select this

**Insert Phones**

Insert Phones Specific Details

File Name \*  [\(View File\)](#) [\(View Sample File\)](#)

Phone Template Name \*  [\(View File\)](#) [\(View Sample File\)](#)

Create Dummy MAC Address (For CTI Port, Create Dummy Device Name)

Insert Phones All Details

File Name  [\(View File\)](#) [\(View Sample File\)](#)

**Override Options**

Override the existing configuration

Delete all existing Speed Dials before adding new Speed Dials

Delete all existing BLF Speed Dials before adding new BLF Speed Dials

Delete all existing BLF Directed Call Parks before adding new BLF Directed Call Parks

Delete all existing Subscribed Services before adding new Services

Note: Select the check box(es) to delete existing Speed Dials, BLF Speed Dials, BLF Directed Call Parks, or Subscribed Services records.

**Job Information**

Job Description

Run Immediately  Run Later (To schedule and activate this job, use Job Scheduler page.)

Click Submit to start the job and insert the phones. The result of the job can be viewed by clicking to:

CUCM -> Cisco Unified CM Administration -> Bulk Administration -> Job Scheduler

Check that the job has been completed successfully by clicking it.

Jobs (1 - 1 of 1)							Rows per Page 100
Job Id	Scheduled Date Time	Submit Date Time	Sequence	Description	Status	Last User	
<input type="checkbox"/> 1394120429	6. marts 2014 16:40:29 CET	6. marts 2014 16:40:29 CET	1	Insert Phones - Specific Details	Completed	appadmin	

Select All Clear All Delete Selected Activate Selected Stop Processing