

Spectralink IP-DECT Server 400/6500 and Spectralink DECT Server
2500/8000

Interoperability Guide

Cisco Unified Communications Manager (CUCM)

CUCM license and COP file installation (Advanced features)

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About This Guide

This guide describes how to configure a Spectralink IP-DECT Server 400/6500 and Spectralink DECT Server 2500/8000 for connecting to a Cisco Unified Communications Manager as Spectralink IP-DECT.

In the following both servers will be referred to as “Spectralink IP-DECT”. The Cisco Unified Communications Manager will be referred to as “CUCM”.

This guide is intended for qualified technicians and the reader is assumed to have a basic knowledge about the Spectralink IP-DECT Server and the Cisco Unified Communications Manager. It is also assumed, that you have an installed and functioning Cisco Unified CM Server and Spectralink IP-DECT/DECT Server.

You can configure the Spectralink IP-DECT solution to be used on a Cisco Unified Communications Manager in two different ways:

- Third Party SIP device
Handsets configured as a Third Party SIP device will have basic integration.
To be able to register Spectralink handsets, phone licenses for 3rd party SIP are required.
For more information, see the relevant Interoperability Guide.
- Spectralink IP-DECT – CUCM license and COP file installation (recommended) – described in this guide
Handsets configured as Spectralink IP-DECT will have a tighter integration with the Cisco Unified Communications Manager, and will have access to additional features. Having the CUCM license installed it is also possible to export handset information from the IP-DECT Server to be imported directly to the CUCM.

Interoperability testing between the Spectralink IP-DECT/DECT Server and the CUCM was conducted using version 11.0 of the Cisco Unified Communications Manager and firmware PCS16F_ of the Spectralink IP-DECT Server and PCS16C_ of the Spectralink DECT Server.

The guide is divided into two parts:

- Spectralink IP-DECT Server part
- Cisco Unified Communications Manager part.

Each part describes the general one-time configuration and the user administration.

**Note**

To support the configuration described in this guide, the IP-DECT Server must have firmware version (400/6500 PCS14A_ or 2500/8000 PCS14B_) or newer. The examples in this guide are made with IP-DECT Server firmware PCS16F_ and Cisco Unified CM version 11.0.

Spectralink References

All Spectralink documents are available at <http://support.spectralink.com>.

Related Documentation

For information about the Spectralink IP-DECT Servers and Cisco Unified Communications Manager not covered in this guide, refer to the following documentation:

Related Documentation

<i>Subject</i>	<i>Documentation</i>
Spectralink IP-DECT Server	Spectralink IP-DECT Server Configuration Guide
Cisco Unified Communications Manager	Navigate to the Cisco documentation site for the latest Cisco documentation
Release Notes	Find them in the download section of the support site
Handset	Handset User Guide

Spectralink IP-DECT Server

This section describes how to order and load the CUCM license, configure the Spectralink IP-DECT Server and how to add users and handsets to the system. It also describes how to export a CSV file, to be used when importing new handsets into the Cisco Unified Communication Manager.

Ordering and Loading the CUCM License

The Spectralink IP-DECT Server requires a CUCM license to enable advanced registration and associated features. The license can be ordered through normal Spectralink channels.

To order a license

- 1 Send your Purchase Order (PO) including the software part number and the number of licenses needed to Spectralink Order Management via (EMEA and APAC) emeaom@spectralink.com or (NALA) nalaom@spectralink.com.
- 2 When your order is processed, Order Management will send you an email including an Authentication Product Key for your software license.
- 3 To activate your software license, use the License Key Generator available at <http://support.spectralink.com/keycode>



Note

Please note that once a software license is generated this is locked to the specified ARI code, and cannot be changed.

To load the license from the web based Administration Page

- 1 If using Spectralink IP-DECT 400/6500, click **Administration**, and then click **License**.
If using Spectralink DECT 2500/8000, click **System**, and then click **License**.

Licenses		
Load license		
License **	<input type="text"/>	<input type="button" value="Load"/>
Loaded licenses		
Key	Users	Features
cba853b1c82a73053d3ca4ed65ed11824c6a8ca700000000008000000000000	0	Cisco Unified CM
		<input type="button" value="Delete"/>

- 2 Copy the provided license key from your email, paste it in the **License** field, and then click **Load**.

- 3 Reboot the system to activate the license.



Note

When the license is loaded, the SIP signaling is changed to be optimized for Cisco Unified Communications Manager. Some SIP servers will not accept this signaling and the Spectralink IP-DECT Server will be unable to communicate with them. Delete the license to resolve this.

Configuring the Spectralink IP-DECT Server

SIP Settings

The Spectralink IP-DECT Server requires a few SIP settings to be adjusted in order to connect properly to the Cisco Unified Server.



Note

SIP settings not mentioned below should be left at their default values.

To modify the SIP settings from the web based Administration Page:

- 1 Click **Configuration**, and then click **SIP**.
- 2 Modify the settings below.

Field	Setting
SIP Configuration – General	
Transport	TCP
Default domain	For a standalone CUCM enter the IP address of the Cisco Unified Communications Manager. For a CUCM cluster or if a SRST router is present enter the Cluster Fully Qualified Domain Name (to be found in CUCM by navigating to Cisco Unified CM Administration > System > Enterprise Parameters).
Send all messages to current registrar	Enable
TCP ephemeral port in contact address	Enable
SIP Configuration - Proxies	
Proxies	If the Cluster Fully Qualified Domain Name is entered in the Default domain field, fill in the IP

Field	Setting
	addresses or hostnames of the CUCM servers in prioritized order.



Note

In order for the Spectralink IP-DECT Server to support Cisco Unified Survivable Remote Site Telephony (SRST) within a CUCM setup with a SRST router, this feature must be configured in the CUCM. For more information, see Cisco documentation.

Example using a standalone CUCM configuration:

SIP Configuration

General

Local port * **

Transport * **

DNS method * **

Default domain * **

Example using a CUCM cluster solution:

SIP Configuration Help

General

Local Port **

Transport **

DNS method **

Default Domain **

Register each endpoint on separate port **

Send all messages to current registrar **

Registration expire (sec) *

Max forwards *

Client transaction timeout (msec) *

SIP type of service (TOS/Diffserv) * **

SIP B02.Ip Class-of-Service *

GRUU

Use SIPS URI

TLS allow insecure **

TCP ephemeral port in contact address **

Proxies

	Priority	Weight	URI
Proxy 1 **	1	100	<input type="text" value="cucmpub.example.com"/>
Proxy 2 **	2	100	<input type="text" value="cucmsub.example.com"/>
Proxy 3 **	3	100	<input type="text"/>
Proxy 4 **	4	100	<input type="text"/>

3 Click **Save**, and then reboot the system.

For an example of the configuration XML file from your Spectralink IP-DECT Server, see the section Example of XML Configuration File.

Enabling Feature Codes

Some advanced features are accessed by dialing special feature codes from the DECT handsets. To provide access to these advanced features, the feature codes must be enabled.

To enable feature codes from the web based Administration Page:

- 1 If using Spectralink IP-DECT 400/6500, click **Configuration**, and then click **Wireless Server**.
If using Spectralink DECT 2500/8000, click **Configuration**, and then click **DECT Server**.
- 2 Under **Feature codes/SIP Users Feature Codes**, mark the **Enable** check box to make the Spectralink IP-DECT Server react to the feature codes.

The default features codes can be modified if relevant.

Feature codes	
Enable	<input checked="" type="checkbox"/>
Call forward unconditional - enable	<input type="text" value="*21*\$#"/>
Call forward to voice mail - enable	<input type="text" value="*21*"/>
Call forward unconditional - disable	<input type="text" value="#21#"/>
Call pickup local	<input type="text" value="**3"/>
Call pickup other group	<input type="text" value="**8"/>
Conference Meet-Me	<input type="text" value="**5\$"/>
Language	
Phone Language **	<input type="text" value="English"/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

- 3 Click **Save**.

Adding Users and Handsets

Each individual DECT handset/user must be added to the Spectralink IP-DECT Server and later on to the Cisco Unified Communications Manager. This section describes how to add the handsets to the Spectralink IP-DECT Server.

To add users to the IP-DECT Server from the web based Administration Page

- 1 If using Spectralink IP-DECT 400/6500, click **Users**, click **List Users**, and then click **New**.

If using Spectralink DECT 2500/8000, click **Users**, click **Overview**, and then click **New Registration**.

2 Enter the required information:

<i>Field</i>	<i>Setting</i>
DECT device	
IPEI (optional)	<p>If a <i>specific</i> handset is being subscribed for this extension, enter the IPEI number of the actual handset. (The IPEI number is readable from the label on the product). If this is not the case this field can be left empty and it will auto-fill when the handsets subscribe.</p> <p>Note: A SIP REGISTER will not be sent before there is an IPEI number present.</p>
Access code (optional)	Admins can define a system wide or individual access code as extra wireless security during the subscription process.
User	
Standby text (optional)	<p>A standby text is a fixed label shown in the top left part of the screen on the DECT handset when in idle state.</p> <p>Note: This feature is only available if Spectralink DECT handsets are being used. If third party DECT handsets are being subscribed, this feature is not supported.</p>
SIP	
Username/Extension	<p>The actual directory number of the handset defined in the Cisco Unified CM.</p> <p>Note: This field must be unique within the Spectralink IP-DECT Server. If simultaneous ring on two or more handsets is required, a Cisco Unified CM ring group must be set up.</p>
Display name (optional)	The name of the user can be entered here. The Cisco Unified CM will not use this but it may ease the administration of users within the Spectralink IP-DECT Server.
CUCM device name	<p>This value is auto-generated by the Spectralink IP-DECT Server and must be used as the device name when the device is added to the Cisco Unified CM.</p> <p>Note: The Spectralink IP-DECT Server will generate this value when the user is saved and it</p>

Field	Setting
	<p>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 Spectralink P-DECT Server.</p>

User 9130

DECT device	
Model	Spectralink 7622
Software part number	14225100
Item number	02640000
Firmware	15Q
HW version	6
Production Id	000F 835D 1F81 93D0
IPEI	<input type="text" value="05003 0366518"/>
Access code	<input type="text"/>
User	
Standby text	<input type="text" value="Ext. 9130"/>
Disabled	<input type="checkbox"/>
SIP	
Username / Extension *	<input type="text" value="9130"/>
Domain	<input type="text"/>
Displayname	<input type="text" value="Spectralink 9130"/>
Authentication user	<input type="text"/>
Authentication password	<input type="text"/>
CUCM device name	SEP268FFB70220
Features	
Call forward unconditional	<input type="text"/>
<input type="button" value="Save"/> <input type="button" value="Delete"/> <input type="button" value="Cancel"/>	

*) Required field

3 Click **Save**.

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

Exporting CVS File for Use in CUCM/Bulk Provisioning

Bulk Provisioning for Cisco Unified Communications Manager

Having the CUCM license installed, the Spectralink IP-DECT Server supports Cisco Unified Communications Manager's Bulk Administration of phones. From the Spectralink IP-DECT Server you can export a CSV file that can be used directly to import new phones into the CUCM.

To generate the CSV file from the web based Administration Page:

- Click **Users**, and then click **Import/Export**.
- Under **Export user data**, click **Save** next to **CSV format Cisco Unified CM** to download the CSV file. This file can be imported directly into the CUCM later on using the Bulk Administration Tool.

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 Communication Manager:

1	MAC ADDRESS,DESCRIPTION,DIRECTORY NUMBER 1
2	SEP268FFB70220,DECT 9130,9130
3	SEPBB4E303AD3B6,DECT 9131,9131
4	

Cisco Unified Communications Manager

This section describes how to download and install the COP file, prepare the Cisco Unified Communications Manager, how to add end users, how to add the DECT handsets either manually or using the Bulk Administration Tool. Each individual DECT handset must be added as a device in CUCM. The Spectralink IP-DECT Server itself will not be added and known to the CUCM.

Installing the COP File

A Cisco Unified Communications Manager COP file provided by Spectralink must be loaded into the CUCM in order to add support for “Spectralink IP-DECT” devices. Handsets configured as Spectralink IP-DECT will have a tighter integration with the Cisco Unified Communications Manager, and will have access to additional features.

- 1 Download the Spectralink COP file for CUCM at support.spectralink.com.
- 2 Install the COP file in the CUCM by navigating to **Cisco Unified OS Administration > Software Upgrades > Install/Upgrade**.



Note

You need a FTP/SFTP server to install the COP file.

- 3 On the **Software Location** page, enter the following data:

<i>Field</i>	<i>Setting</i>
Software Location	
Source	Select Remote Filesystem.
Directory	Enter the path on the SFTP or FTP server.
Server	Enter the hostname or IP address of the SFTP or FTP server.
Username	Enter User name to login to the SFTP or FTP server.
Password	Enter Password to login to the SFTP or FTP server
Transfer Protocol	Select SFTP or FTP.

Status

Status: Ready

Software Location

Source*

Directory*

Server*

User Name*

User Password*

Transfer Protocol*

SMTP Server

Email Destination

- 4 When the data has been entered, click **Next**.
The CUCM now contacts the FTP/SFTP server and look for update files.
- 5 When the update files are listed, select the **COP (.cop.sgn) file**, and click **Next**.
The CUCM downloads the COP file.
When the COP file is downloaded, the CUCM displays the file checksum details.
- 6 Check that everything looks correct, and click **Next**.
The CUCM will start installing the COP file. The installation will take a while.
- 7 When the installation of the COP file is successfully completed, restart the **CM TFTP Service** to make sure that the changes take effect.

Navigate to **Cisco Unified Serviceability** * > **Tools** > **Control Center - Feature Services** > **Select Publisher IP Address** > **Cisco Tftp**.



Note

If the COP file has been successfully installed, then a DECT handset icon appears when adding handsets to the CUCM Database. If you have restarted the CM TFTP without the DECT handset icon appearing, you need to restart the Cisco Unified Communications Manager as well.

Adding DECT Handsets to CUCM Database

This section describes how to add the individual Spectralink DECT handsets to the Cisco Unified Communications Manager.

Each individual DECT handset is identified by a unique device name, which is generated by the Spectralink IP-DECT Server. This device name 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 Spectralink IP-DECT Server.

Two different methods for adding handsets are supported:

- Manual end user/handset provisioning
- Automated end user/handset provisioning using the Bulk Administration Tool

Manual End User/Handset Provisioning in CUCM

Manual handset provisioning consists of the following two tasks:

- Adding new end users manually
- Adding handsets manually


To add end users manually:

- 1 Navigate to **Cisco Unified CM Administration > User Management > End User**.
- 2 Click **Add new**.
- 3 On the **End User Configuration** page, enter relevant data in the following fields:


<i>Field</i>	<i>Setting</i>
User Information	
User Id	Enter the relevant user ID. E.g. rchristensen
Password	Enter a password. (If you are LDAP integrated, this field will be grayed out and unavailable, and you would create or modify this password through the Active Directory Server. This password is not used by the Spectralink IP-DECT Server, but it is good practice to assign a password for each user).
Confirm Password	Confirm the password.
Self Service User ID (optional)	Enter the relevant self service user ID, e.g. 9130 (We may use the extension number we intend for the device. This is not used by Spectralink IP-DECT Server, but the user might wish to utilize this to enter the Self Service Web portal)

Field	Setting
Pin (optional)	Enter a pin if you wish the user to take advantage of pin enabled features such as user web login. E.g. 1234
Confirm Pin	Repeat the value you entered in the field above.
Last name	Enter last name. E.g. Christensen

End User Configuration

 Save

Status

 Status: Ready

User Information

User Status	Enabled Local User
User ID*	<input type="text" value="9130"/>
Password	<input type="password" value="••••"/>
Confirm Password	<input type="password"/>
Self-Service User ID	<input type="text"/>
PIN	<input type="text"/>
Confirm PIN	<input type="text"/>
Last name*	<input type="text" value="9130"/>


4 Click **Save**.

Click **Add New** and repeat the procedure if you want to add another new end user.


To add handsets manually:

- 1** Navigate to **Cisco Unified CM Administration > Device > Phone**.
- 2** Click **Add new**.
- 3** In the **Phone Type** list, select **Spectralink IPDECT**, and then click **Next**.

Add a New Phone

 **Next**

Status

 Status: Ready

Create a phone using the phone type or a phone template

Phone Type* Spectralink IPDECT ▼

or

BAT Phone Template* -- Not Selected -- ▼




Note

If **Spectralink IPDECT** is not available from the list, please make sure that the COP file is installed correctly and that the CUCM has been restarted afterwards.

- 4** On the **Phone Configuration** page, enter relevant data in the following fields:

<i>Field</i>	<i>Setting</i>
Device Information	
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 relevant device pool.
Phone Button Template	Select phone button template.
Owner User ID	Select the relevant Owner User ID.
Protocol Specific Information	
Device Security Profile	Select the relevant Device Security Profile.
SIP Profile	Select the relevant SIP Profile.

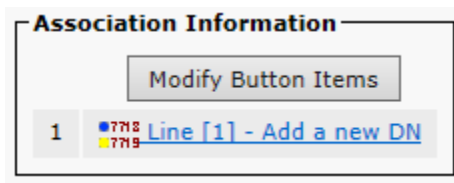
Status	
	Status: Ready

Phone Type	
Product Type:	Spectralink IPDECT
Device Protocol:	SIP

Device Information	
<input checked="" type="checkbox"/>	Device is trusted
Device Name*	SEP268FFB70220
Description	
Device Pool*	Default View Details
Common Device Configuration	< None > View Details
Phone Button Template*	Spectralink IPDECT default
Common Phone Profile*	Standard Common Phone Profile View Details
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
AAR Group	< None >
Device Mobility Mode*	Default
Owner	<input checked="" type="radio"/> User <input type="radio"/> Anonymous (Public/Shared Space)
Owner User ID*	9130

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 Prc
Rerouting Calling Search Space	< None >
SUBSCRIBE Calling Search Space	< None >
SIP Profile*	Standard SIP Profile View Details
Digest User	< None >
<input type="checkbox"/>	Media Termination Point Required
<input type="checkbox"/>	Unattended Port
<input type="checkbox"/>	Early Offer support for voice and video calls (insert MTP if needed)

- 5 When the data is entered, click **Save**, and then click **OK** to apply the configuration.
- 6 In the appearing **Association Information**, click **Add a new DN**.



On the **Directory Number Configuration** page, enter the relevant Directory Number in the **Directory Number** field.



Note

The Directory Number must be the same as the **Username/Extension** field in the User setup on the Spectralink IP-DECT Server.

Directory Number Configuration

Save

Status

Directory Number Configuration has refreshed due to a directory number change. Please click Save button.

Directory Number Information

Directory Number* Urgent Priority

Route Partition

Description

Alerting Name

ASCII Alerting Name

External Call Control Profile

Active

7 Click **Save** and return to the list of devices.

The CUCM will show the registration status of the device.

<input type="checkbox"/>	Device Name(Line) ^	Description	Device Pool	Device Protocol	Status	IPv4 Address	Copy	Super Copy
<input type="checkbox"/>	SEP268FFB70220		Default	SIP	Registered with HORCUCM11	172.29.194.107		

The registration should look like this on the IP-DECT Server **List Users** page:

<input type="checkbox"/>	Enabled	User	Displayname	IPEI	Handset	Firmware	Subscription	Registration	Latest activity
<input type="checkbox"/>	✓	9130	Spectralink 9130	05003 0366518	Spectralink 7622	15Q	✓	✓	✓



Note

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

Automated end user/handset provisioning using the Bulk Administration Tool

When adding many handsets to the Cisco Unified Communication Manager it is beneficial to use bulk provisioning in order to automate the handset creation process. The Bulk Administration Tool allows you to import the user list and end user configuration from a CSV file into the database.

The process of bulk provisioning handsets consists of the following three tasks:

- Ensure activation of the bulk provisioning service
- Creation of templates for inserting the handsets
- Import of CSV file containing the handset data using the Bulk Administration Tool

To check activation of bulk provisioning service:

- 1 Check that the “Cisco Bulk Provisioning Service” is active by navigating 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

To create templates

It is necessary 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:

- 1 Navigate to **Cisco Unified CM Administration > Bulk Administration > Phones > Phone template**.
- 2 Click **Add New**.
- 3 In the **Phone Type** list, select **Spectralink IPDECT**, and click **Next**.
- 4 On the **Phone Template Configuration** page, enter the required parameters:

Field	Setting
Device Information	
Template Name	Enter a name for the template.
Device Pool	Select Default.
Phone Button Template	Select Spectralink IPDECT default.
Common Phone Profile	Select Standard Common Phone Profile.
Protocol Specific Information	
Device Security Profile	Select Spectralink IPDECT – Standard SIP Non-Secure Profile.
SIP Profile	Select Standard SIP Profile.

Status

 Status: Ready

Phone Type

Product Type: Spectralink IPDECT
Device Protocol: SIP

Device Information

Device is trusted

Template Name*	<input type="text" value="Spectralink_template"/>
Description	<input type="text"/>
Device Pool*	Default <input type="button" value="v"/> View Details
Common Device Configuration	< None > <input type="button" value="v"/> View Details
Phone Button Template*	Spectralink IPDECT default <input type="button" value="v"/>
Common Phone Profile*	Standard Common Phone Profile <input type="button" value="v"/> View Details
Calling Search Space	< None > <input type="button" value="v"/>
AAR Calling Search Space	< None > <input type="button" value="v"/>
Media Resource Group List	< None > <input type="button" value="v"/>
User Hold MOH Audio Source	< None > <input type="button" value="v"/>
Network Hold MOH Audio Source	< None > <input type="button" value="v"/>
Location*	Hub_None <input type="button" value="v"/>
AAR Group	< None > <input type="button" value="v"/>
Device Mobility Mode*	Default <input type="button" value="v"/>
Owner User ID*	< None > <input type="button" value="v"/>
Use Trusted Relay Point*	Default <input type="button" value="v"/>
Always Use Prime Line*	Default <input type="button" value="v"/>
Always Use Prime Line for Voice Message*	Default <input type="button" value="v"/>

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 Profi	▼
Rerouting Calling Search Space	< None >	▼
SUBSCRIBE Calling Search Space	< None >	▼
SIP Profile*	Standard SIP Profile	▼ View Details
Digest User	< None >	▼

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

- 5 Click **Save**, and then click **OK** to apply the configuration.
- 6 In the appearing **Association Information**, click **Add a new DN** to add a line template to the device template.


Association Information

Modify Button Items

1	 	Line [1] - Add a new DN
---	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------

- 7 In the **Line Template Name** field, enter a template name.

— Status

 Status: Ready

— Directory Number Information

Line Template Name *

Route Partition

Description

Alerting Name

ASCII Alerting Name

External Call Control Profile

Associated Devices

▼ ▲

Dissociate Devices

- 8 In the **Associated Devices** field, make sure that the phone template appears as an associated device, and then click **Save**.


To import a CSV file:


Import the CSV file (previously exported from the Spectralink IP-DECT Server) using the phone template defined.

- 1 First, upload the CSV file to CUCM by navigating to **Cisco Unified CM Administration > Bulk Administration > Upload/Download Files**.
- 2 Click **Add New**.
- 3 On the **File Upload Configuration** page, enter the relevant data:

<i>Field</i>	<i>Setting</i>
Upload the CSV file	
File	Browse to the CSV file on the computer.
Select the Target	Select Phones.
Select Transaction Type	Select Insert Phones – Specific Details.



File Upload Configuration

 Save

Status
 Status: Ready

Upload the CSV file
 File: *
 Select The Target *
 Select Transaction Type *
 Overwrite File if it exists.**

- 4 Click **Save**. The file will be uploaded to CUCM. Check that the uploaded file is available in the list.

Status
 0 records deleted
 2 records found

File (1 - 2 of 2)
 Find File where begins with Using

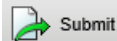
	File Name ^	
<input type="checkbox"/>	bat.xlt	BAT Excel CSV Tool
<input type="checkbox"/>	users_export.csv	Insert Phones - Specific Details

- 5 When the CSV file is uploaded, then the DECT handsets can be inserted into the CUCM by navigating to **Cisco Unified CM Administration > Bulk Administration > Phones > Insert Phones**.
- 6 On the **Insert Phones Configuration page**, enter the following data:

<i>Field</i>	<i>Setting</i>
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 DECT handsets.

Field	Setting
Job Information	
Run Immediately	Select this.

Insert Phones Configuration



Status

Status: Ready

Insert Phones

Insert Phones Specific Details

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

Phone Template Name *

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 a

Job Information

Job Description

Run Immediately

Run Later (To schedule and activate this job, use Job

- 7 Click **Submit** to start the job and insert the phones. The result of the job can be viewed by navigating to **Cisco Unified CM Administration > Bulk Administration > Job Scheduler**.

Jobs (1 - 1 of 1)							Rows per Page 100				
Find	Jobs where	User	begins with	using AND	Show	Completed Jobs	Find	Clear Filter	↓	↑	
<input type="checkbox"/>	Job 14										
<input type="checkbox"/>	1476968823		20. oktober 2016 15:04:34 CEST			20. oktober 2016 15:04:34 CEST	1		Insert Phones - Specific Details	Completed	AppAdmin
<input type="button" value="Select All"/> <input type="button" value="Clear All"/> <input type="button" value="Delete Selected"/> <input type="button" value="Activate Selected"/> <input type="button" value="Stop Processing"/>											

- 8 Click on the relevant job to check that the job has been completed successfully.

Example of XML Configuration File

```

<?xml version="1.0" encoding="UTF-8" standalone="true"?>
<config>
<application>
  <enable_msf>true</enable_msf>
  <enable_rpc>false</enable_rpc>
  <internal_messaging>true</internal_messaging>
  <username>GW-DECT/admin</username>
</application>
-<dect>
  <auth_call>true</auth_call>
  <encrypt_voice_data>Disabled</encrypt_voice_data>
  <global_tx_power>0</global_tx_power>
  <send_date_time>true</send_date_time>
  <subscription_allowed>true</subscription_allowed>
</dect>
<feature_codes>
  <call_forward>
    <unconditional>
      <disable>#21#</disable>
      <enable>*21*$#</enable>
    </unconditional>
  <voicemail>
    <enable>*21*</enable>
  </voicemail>
</call_forward>
<conference>
  <meetme>**5$</meetme>
</conference>
<enable>true</enable>
<pickup>
  <group_other>**8</group_other>
  <local>**3</local>
</pickup>
</feature_codes>
<language>en</language>
<license>[CISCO license]</license>
-<log>
  <syslog>
    <facility>16</facility>
    <level>info</level>
    <port>514</port>
  </syslog>
</log>
<network>
  <bootproto>dhcp</bootproto>
  <hostname>kws6500</hostname>
  <ipaddr>10.8.10.150</ipaddr>
  <ipv6>
    <method>disabled</method>
  </ipv6>
  <netmask>255.255.255.0</netmask>
  <ntp>dk.pool.ntp.org</ntp>
  <timezone>CET-1CEST-2,M3.5.0/02:00:00,M10.5.0/03:00:00</timezone>
</network>
-<rfp>
  <default_sync_type>radio</default_sync_type>
  <ptp>
    <transport>l2</transport>
  </ptp>
</rfp>

```

```
<security>
  <allow_new_media_resource>true</allow_new_media_resource>
  <allow_new_rfp>true</allow_new_rfp>
</security>
<sip>
  <callwaiting>true</callwaiting>
  <client_transaction_timeout>4000</client_transaction_timeout>
  <dect_detach_action>ignore</dect_detach_action>
  <defaultdomain>172.29.193.102</defaultdomain>
  <dnsmethod>arecord</dnsmethod>
  <dtmf>
    <duration>270</duration>
    <info>>false</info>
    <rtp>true</rtp>
    <rtp_payload_type>96</rtp_payload_type>
  </dtmf>
  <gruu>true</gruu>
  <localport>5060</localport>
  <maxforwards>70</maxforwards>
  <media>
    <codecs>64,1,2,0,0,0</codecs>
    <ice>
      <enable>>false</enable>
    </ice>
    <port>58000</port>
    <ptime>20</ptime>
    <sdp_answer_single>>false</sdp_answer_single>
    <sdp_answer_with_preferred>>false</sdp_answer_with_preferred>
    <sdp_ignore_version>>false</sdp_ignore_version>
    <tos>184</tos>
    <turn>
      <enable>>false</enable>
    </turn>
    <vlan_cos>5</vlan_cos>
  </media>
  <music_on_hold>>false</music_on_hold>
  <mwi>
    <enable>true</enable>
    <expire>3600</expire>
    <subscribe>>false</subscribe>
  </mwi>
  <onholdtone>true</onholdtone>
  <pound_dials_overlap>>false</pound_dials_overlap>
  <proxy>
    <port>0</port>
    <port2>0</port2>
    <port3>0</port3>
    <port4>0</port4>
    <priority>1</priority>
    <priority2>2</priority2>
    <priority3>3</priority3>
    <priority4>4</priority4>
    <weight>100</weight>
    <weight2>100</weight2>
    <weight3>100</weight3>
    <weight4>100</weight4>
  </proxy>
  <registration_expire>3600</registration_expire>
  <send_to_current_registrar>true</send_to_current_registrar>
  <separate_endpoint_ports>>false</separate_endpoint_ports>
  <showstatustext>true</showstatustext>
  <tcp_contact_ephemeral_port>true</tcp_contact_ephemeral_port>
  <tls_allow_insecure>>false</tls_allow_insecure>
  <tos>96</tos>
  <transport>tcp</transport>
  <use_sips_uri>>false</use_sips_uri>
  <vlan_cos>3</vlan_cos>
</sip>
```

```
<snmp>  
  <community>public</community>  
  <enable>>false</enable>  
</snmp>  
<upnp>  
  <broadcast>>false</broadcast>  
  <enable>>true</enable>  
</upnp>  
</config>
```