



Avaya Solution & Interoperability Test Lab

Application Notes for Spectralink IP-DECT Server 400 with Avaya IP Office Server Edition - Issue 1.0

Abstract

These Application Notes describe the configuration steps required to integrate Spectralink IP-DECT Server 400 with Avaya IP Office Server Edition. Spectralink IP-DECT Server 400 is a wireless solution that can be deployed as a standalone system or operate/manage external Spectralink base stations. Spectralink IP-DECT Server 400 controls the traffic in the air from Spectralink handsets and works as the link between the handsets and Avaya IP Office Server Edition. The Spectralink handsets used for the compliance test included the Spectralink 7202, 7622, and Butterfly Handsets. In addition, an optional Spectralink Base Station was also used to verify roaming. Spectralink IP-DECT Server 400 interfaces to Avaya IP Office Server Edition via SIP (as SIP endpoints). These Application Notes also apply to the Spectralink IP-DECT Server 6500, which is similar to the IP-DECT Server 400 and only differ in their scalability.

Readers should pay attention to **Section 2**, in particular the scope of testing as outlined in **Section 2.1** as well as the observations noted in **Section 2.2**, to ensure that their own use cases are adequately covered by this scope and results.

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab.

1. Introduction

These Application Notes describe the configuration steps required to integrate Spectralink IP-DECT Server 400 with Avaya IP Office Server Edition. Spectralink IP-DECT Server 400 is a wireless solution that can be deployed as a standalone system or operate/manage external Spectralink base stations. Spectralink IP-DECT Server 400 controls the traffic in the air from Spectralink handsets and works as the link between the handsets and Avaya IP Office Server Edition. The Spectralink handsets used for the compliance test included the Spectralink 7202, 7622, and Butterfly Handsets. In addition, an optional Spectralink Base Station was also used to verify roaming. Spectralink IP-DECT Server 400 interfaces to Avaya IP Office Server Edition via SIP (as SIP endpoints). These Application Notes also apply to the Spectralink IP-DECT Server 6500, which is similar to the IP-DECT Server 400 and only differ in their scalability.

2. General Test Approach and Test Results

The interoperability compliance test included feature and serviceability testing. The feature testing focused on establishing calls between Spectralink 7000 Series and Butterfly Handsets and Avaya SIP/H.323 telephones and exercising basic telephony features, such as hold, mute, and transfer. The Spectralink handsets gained network access via the Spectralink IP-DECT Server 400. Additional telephony features, such as call forward, follow me, call park/unpark, and call pickup were also verified using Avaya IP Office Shortcodes.

The serviceability testing focused on verifying that Spectralink IP-DECT Server 400 came back into service after re-connecting the Ethernet connect or rebooting the Spectralink handsets.

DevConnect Compliance Testing is conducted jointly by Avaya and DevConnect members. The jointly-defined test plan focuses on exercising APIs and/or standards-based interfaces pertinent to the interoperability of the tested products and their functionalities. DevConnect Compliance Testing is not intended to substitute full product performance or feature testing performed by DevConnect members, nor is it to be construed as an endorsement by Avaya of the suitability or completeness of a DevConnect member's solution.

Avaya recommends our customers implement Avaya solutions using appropriate security and encryption capabilities enabled by our products. The testing referenced in this DevConnect Application Note included the enablement of supported encryption capabilities in the Avaya products. Readers should consult the appropriate Avaya product documentation for further information regarding security and encryption capabilities supported by those Avaya products.

Support for these security and encryption capabilities in any non-Avaya solution component is the responsibility of each individual vendor. Readers should consult the appropriate vendor-supplied product documentation for more information regarding those products.

For the testing associated with these Application Notes, the interface between Avaya systems and Spectralink IP-DECT Server 400 included TLS, but not SRTP, which is currently not supported with Avaya IP Office.

2.1. Interoperability Compliance Testing

Interoperability compliance testing covered the following features and functionality:

- SIP registration of Spectralink handsets with Avaya IP Office Server Edition and Avaya IP Office 500 V2 Expansion. Spectralink IP-DECT Server 400 controls the traffic in the air and works as the link between the Spectralink handsets and Avaya IP Office.
- Calls between Spectralink handsets and Avaya SIP/H.323 telephones with Direct IP Media (Shuffling) enabled and disabled. Direct IP Media was supported between Spectralink handset and Avaya SIP deskphones.
- Calls between the Spectralink handsets and the PSTN.
- UDP and TLS transport protocol.
- Support of G.711 and G.729 codecs.
- Proper recognition of DTMF tones.
- Basic telephony features, including hold, mute, redial, multiple calls, blind/attended transfer and long duration calls.
- Extended telephony features using Avaya IP Office Shortcodes for Call Forward, Follow Me, Call Park/Unpark, and Call Pickup.
- Voicemail coverage, MWI support, and logging into voicemail system to retrieve messages.
- Roaming of Spectralink handsets from Spectralink IP-DECT Server 400 to Spectralink Base Station.
- Proper system recovery after a restart of Spectralink IP-DECT Server 400 and Spectralink handsets and loss of IP connectivity.

2.2. Test Results

All test cases passed with the following observations noted:

- Spectralink 7000 Series Handsets do not support the initiation of 3-party conference calls.
- SRTP is currently not supported between Spectralink IP-DECT Server 400 and Avaya IP Office.
- Avaya IP Office supports Direct Media between Spectralink handsets and other SIP endpoints while SRTP is disabled on Avaya IP Office. Direct Media for Spectralink calls to H.323 endpoints is not supported.

2.3. Support

For technical support on the Spectralink IP-DECT Server 400/6500, Spectralink Base Station, or Spectralink 7000 Series and Butterfly Handsets, contact Spectralink Technical Support via phone, email, or website.

- **Phone:** +1 (800) 775-5330
- **Web:** <http://support.spectralink.com/>
- **Email:** technicalsupport@spectralink.com

3. Reference Configuration

Figure 1 illustrates a sample configuration consisting of Spectralink IP-DECT Server 400, Spectralink Base Station (optional), and Spectralink 7000 Series and Butterfly Handsets with Avaya IP Office Server Edition and Avaya IP Office 500 V2 (Expansion System). The Spectralink handsets registered with Avaya IP Office via SIP through the Spectralink IP-DECT Server 400. The Spectralink Base Station is an optional component that was used to verify roaming of the Spectralink handsets. Avaya Embedded Voicemail served as the voicemail system. Avaya 96x1 Series H.323 Deskphones and an Avaya 1120E and 1220 SIP Deskphones were used for placing and receiving calls.

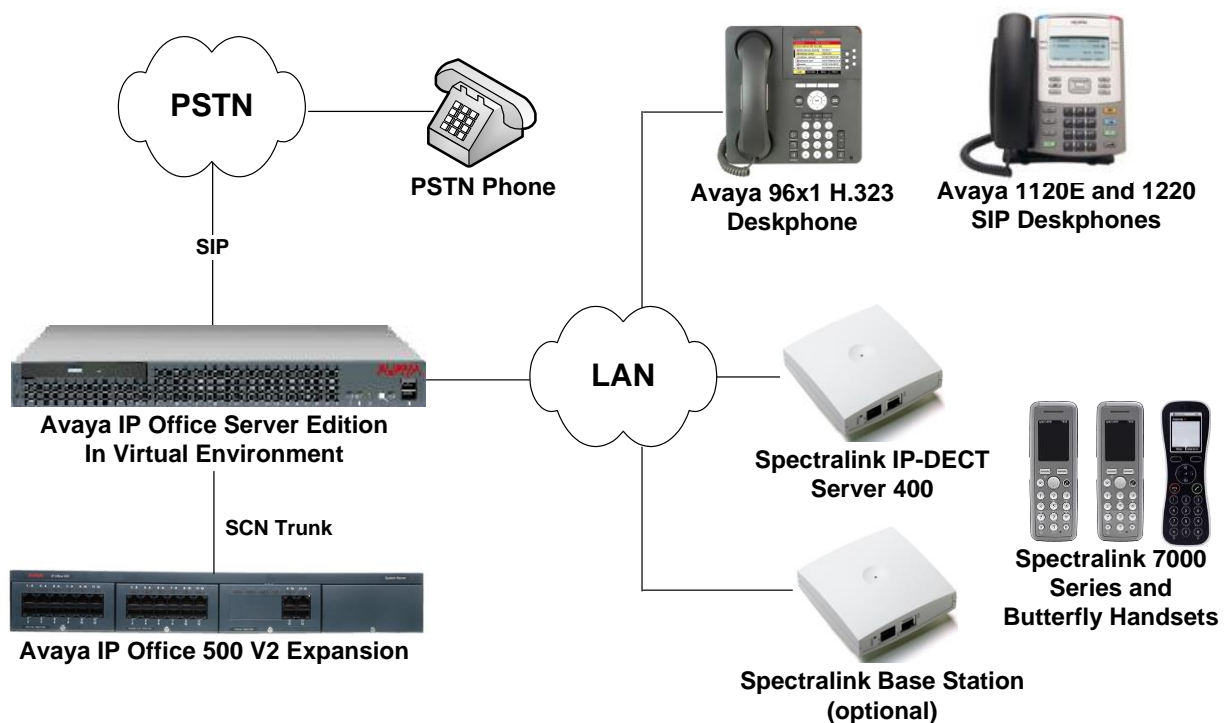


Figure 1: Spectralink IP-DECT Server 400, Spectralink Base Station, and Spectralink 7000 Series and Butterfly Handsets with Avaya IP Office Server Edition

4. Equipment and Software Validated

The following equipment and software were used for the sample configuration provided:

Equipment/Software	Release/Version
Avaya IP Office Server Edition	10.1.0.0.0 Build 237
Avaya IP Office 500 V2 (Expansion System)	10.1.0.0.0 Build 237
Avaya 96x1 Series IP Deskphone (H.323)	6.6401
Avaya 1120E Series SIP Deskphone	04.04.26.0
Avaya 1220 Series SIP Deskphone	04.04.26.0
Spectralink IP-DECT Server 400 (see note)	PCS17A
Spectralink Base Station	PCS17A
Spectralink 7202 and 7622 Handsets	17C
Spectralink Butterfly Handset	16D

Note: These Application Notes also apply to the Spectralink IP-DECT server 6500, which uses the same firmware as the Spectralink IP-DECT Server 400 and uses the same SIP stack and XML-RPC API for messaging. These two IP DECT server types differ in scalability only.

5. Configure Avaya IP Office Server Edition

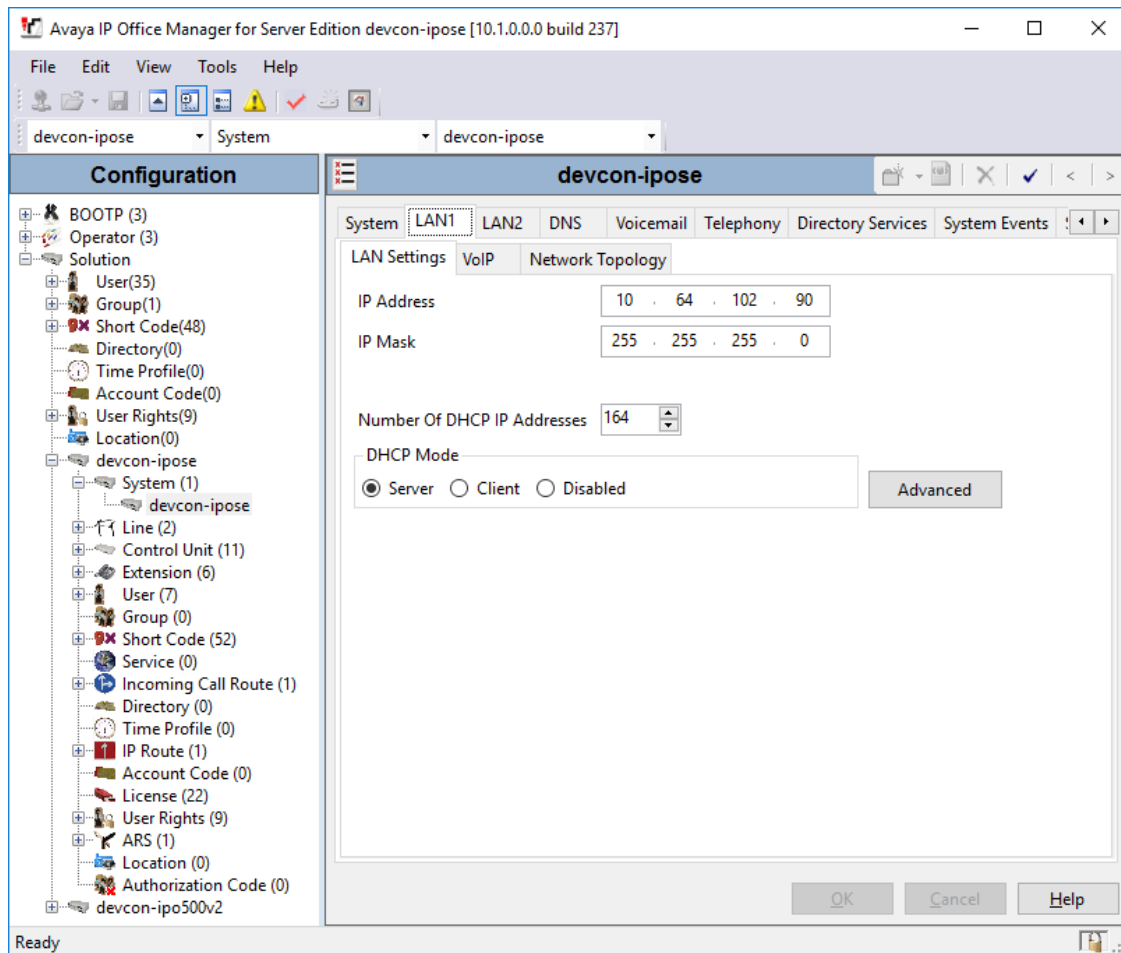
This section provides the procedures for configuring Avaya IP Office Server Edition. The procedures include the following areas:

- Obtain LAN IP address
- Administer SIP registrar
- Administer SIP extension for Spectralink 7000 Series and Butterfly Handset
- Administer SIP user for Spectralink 7000 Series and Butterfly Handset

Note: This section covers the configuration of Avaya IP Office Server Edition, but the configuration of Avaya IP Office 500 V2 would be similar.

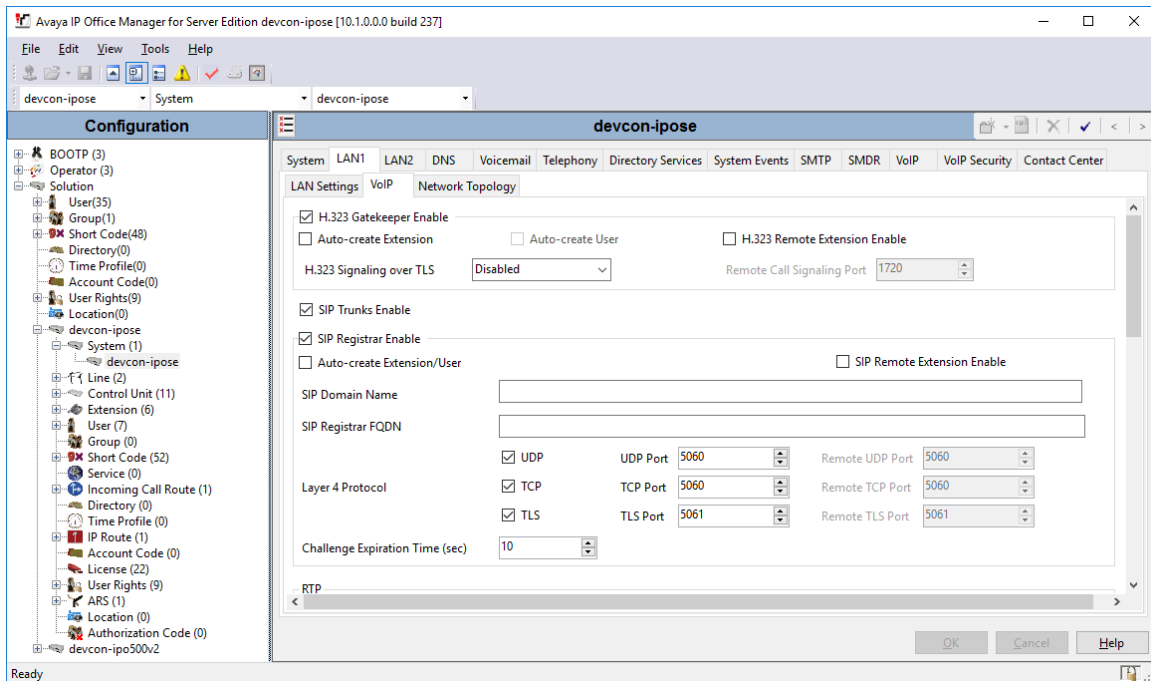
5.1. Obtain LAN IP Address

From the configuration tree in the left pane, select **System** to display the **System** screen for the IP Office Server Edition in the right pane. Select the **LAN1** tab, followed by the **LAN Settings** sub-tab in the right pane. Make a note of the **IP Address**, which will be used later to configure Spectralink IP-DECT Server 400.



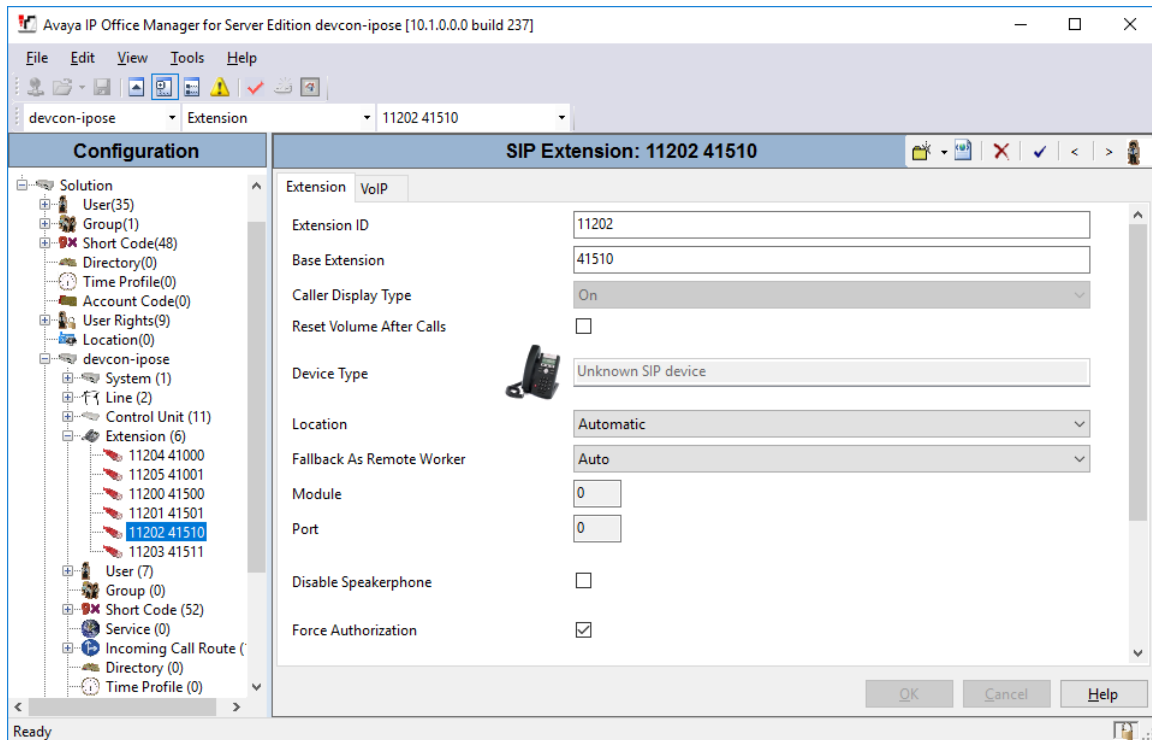
5.2. Administer SIP Registrar

Select the **VoIP** sub-tab. Ensure that **SIP Registrar Enable** is checked and enter a valid **Domain Name**. In the compliance testing, the **Domain Name** field was left blank so the LAN IP address was used. For the **Layer 4 Protocol**, enable **TLS** to use it as the transport between the Spectralink handsets and Avaya IP Office. UDP was also verified during the compliance test.

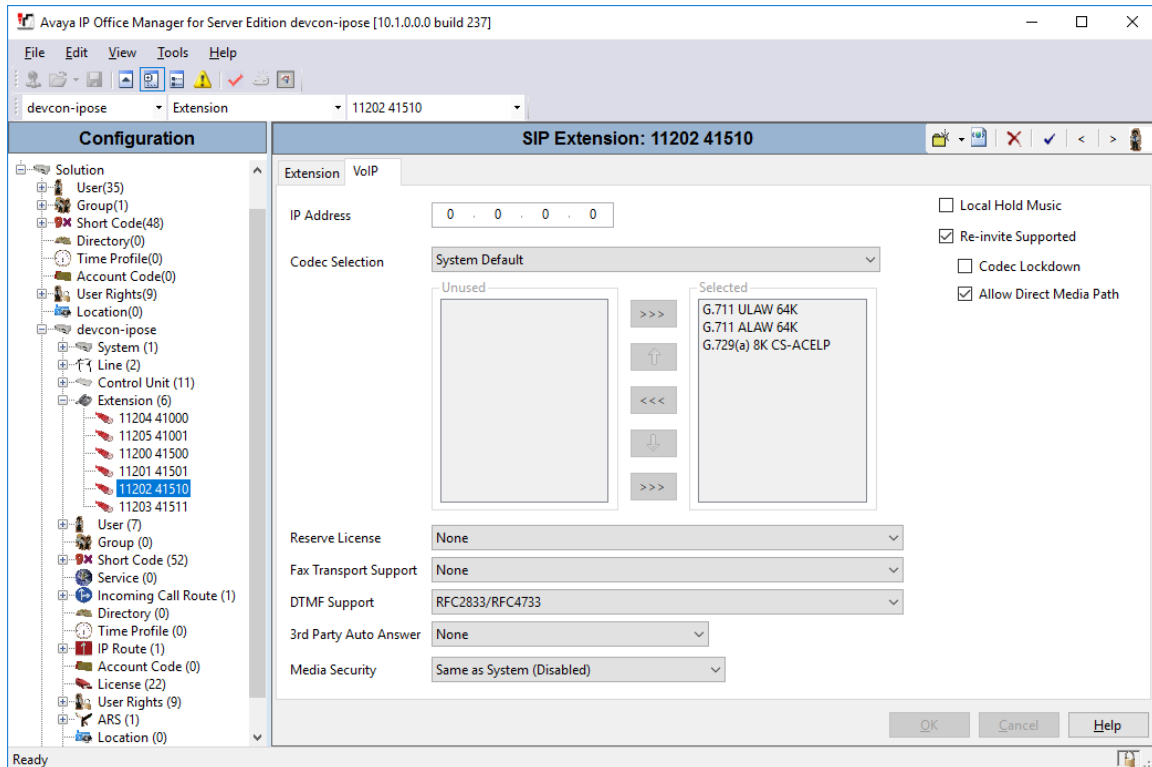


5.3. Administer SIP Extension for Spectralink 7000 Series or Butterfly Handset

From the configuration tree in the left pane, right-click on **Extension** and select **New → SIP Extension** (not shown) from the pop-up list to add a new SIP extension. Enter the desired extension for the **Base Extension** field as shown below. In this example, the Spectralink handset was assigned extension **41510**. This is the extension that the Spectralink handset will use to register with IP Office Server Edition.



Select the **VoIP** tab and retain the default values in the all fields. During the compliance test, Spectralink 7000 Series and Butterfly handsets were tested using G.711 and G.729 codecs. Enable **Allow Direct Media Path** so that audio/RTP flows directly between two SIP endpoints without using media resources in Avaya IP Office.



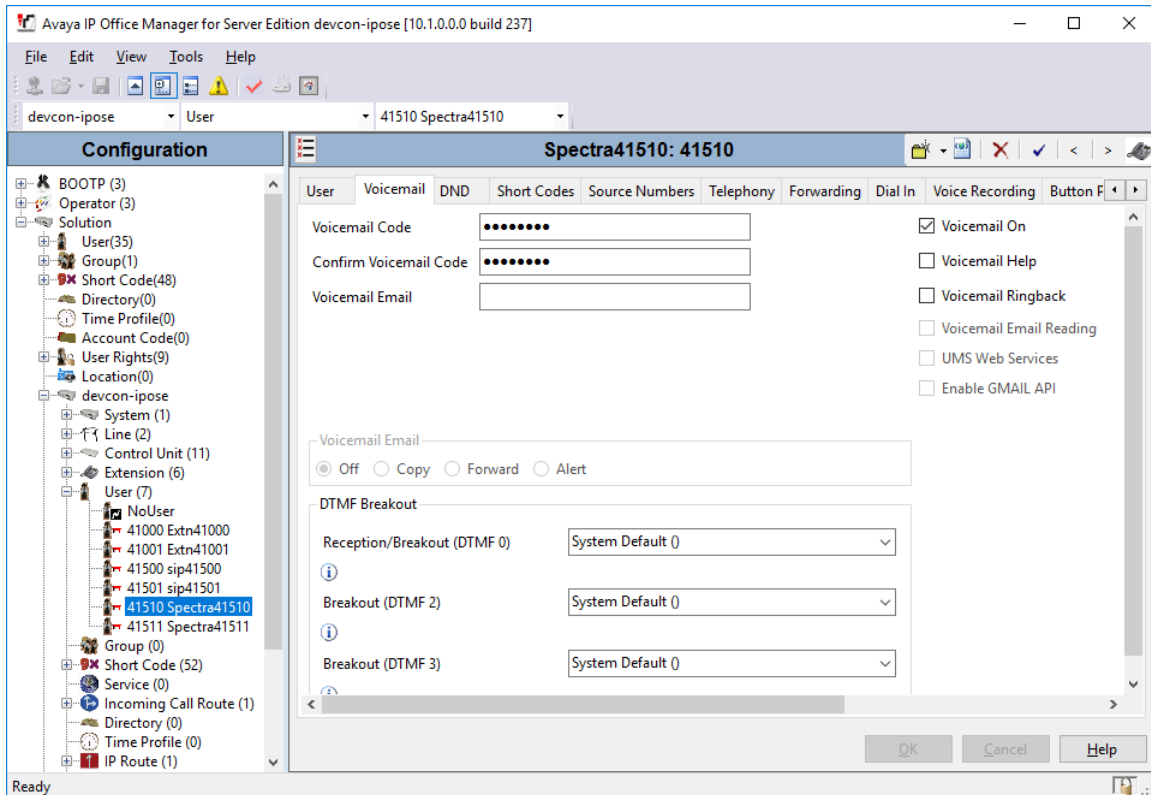
5.4. Administer SIP User for Spectralink 7000 Series or Butterfly Handset

From the configuration tree in the left pane, right-click on **User** and select **New** (not shown) from the pop-up list. Enter desired values for the **Name** and **Full Name** fields. For the **Extension** field, enter the SIP extension created above.

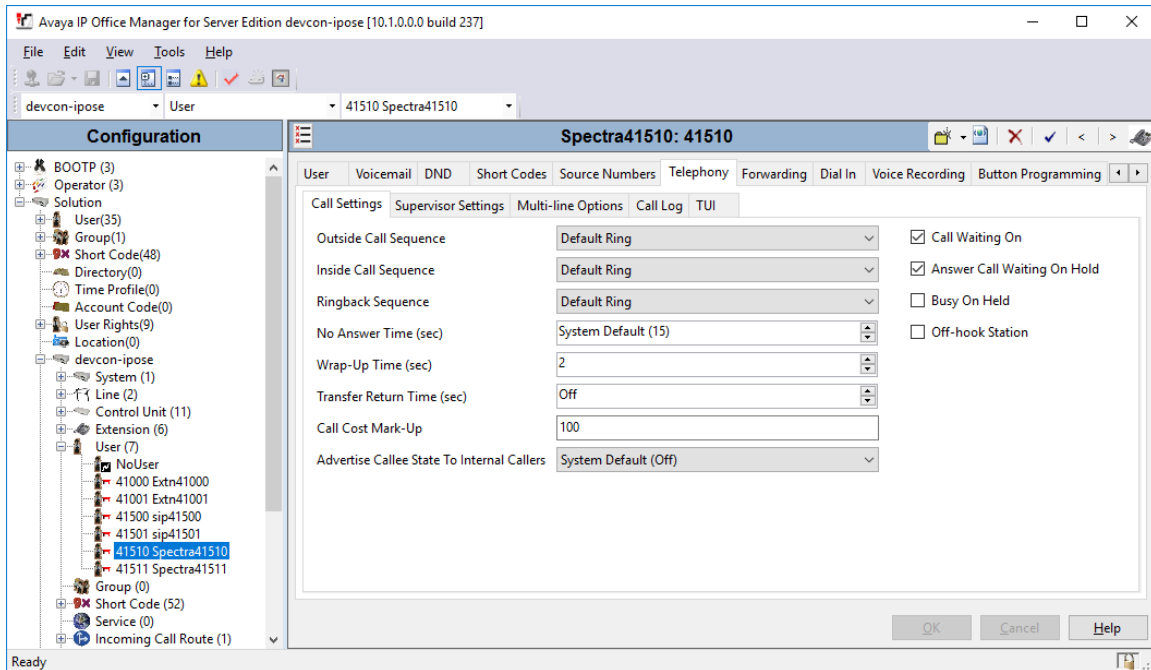
The screenshot shows the Avaya IP Office Manager for Server Edition configuration window. The title bar indicates the version is 10.1.0.0.0 build 237. The left pane shows a configuration tree with 'User' selected under 'devcon-ipose'. The right pane displays the configuration for 'Spectra41510: 41510'. The 'User' tab is active, showing fields for Name, Password, Confirm Password, Unique Identity, Conference PIN, Confirm Audio Conference PIN, Account Status (Enabled), Full Name (Spectralink), Extension (41510), Email Address, Locale, Priority (5), System Phone Rights (None), and Profile (Basic User). The 'OK', 'Cancel', and 'Help' buttons are at the bottom right.

Field	Value
Name	Spectra41510
Password	
Confirm Password	
Unique Identity	
Conference PIN	
Confirm Audio Conference PIN	
Account Status	Enabled
Full Name	Spectralink
Extension	41510
Email Address	
Locale	
Priority	5
System Phone Rights	None
Profile	Basic User

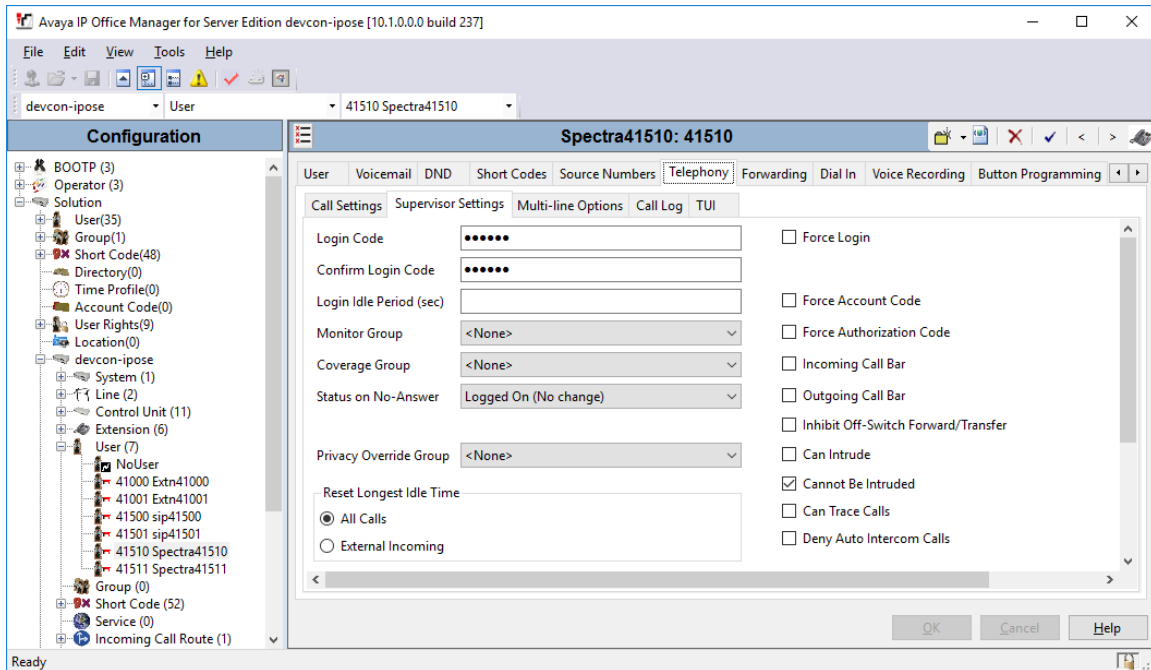
Select the **Voicemail** tab and select **Voicemail On** to enable voicemail for the Spectralink handset. Specify a **Voicemail Code** to be used when logging into voicemail.



Select the **Telephony** tab followed by the **Call Settings** sub-tab. Note the settings below for the user. Note that **Call Waiting On** was enabled.



Select the **Supervisor Settings** tab and enter a desired **Login Code**. The **Login Code** is the password that will be used by the Spectralink handset to register with IP Office.



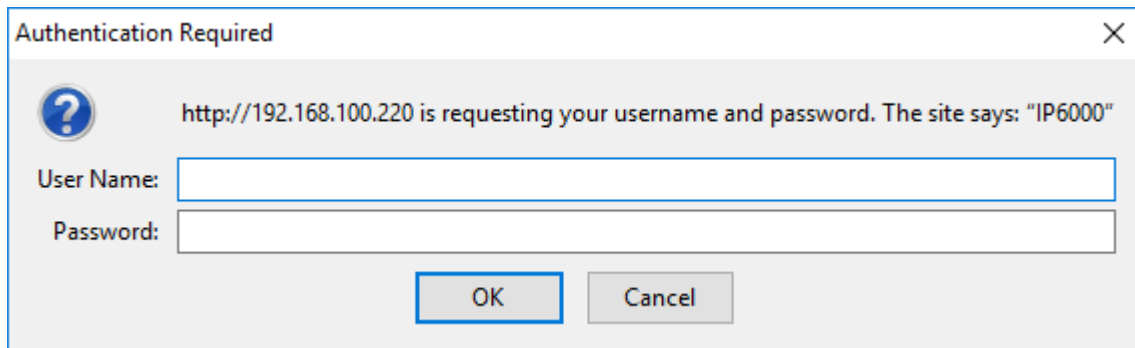
6. Configure Spectralink IP-DECT Server 400

This section provides the procedures for configuring Spectralink IP-DECT Server 400. The procedures fall into the following areas:

- Launch web interface.
- Administer network settings.
- Administer SIP settings, including SIP port, transport protocol, Message Waiting Indicator (MWI) and audio codecs.
- Add SIP Users.
- Import TLS certificate (optional). Required to use TLS transport.

6.1. Launch Web Interface

Spectralink IP-DECT Server 400 was configured through the web interface by using the URL “https://ip-address” in an Internet browser window, where “ip-address” is the IP address of IP-DECT Server 400. Log in using the appropriate credentials and then click **OK**.

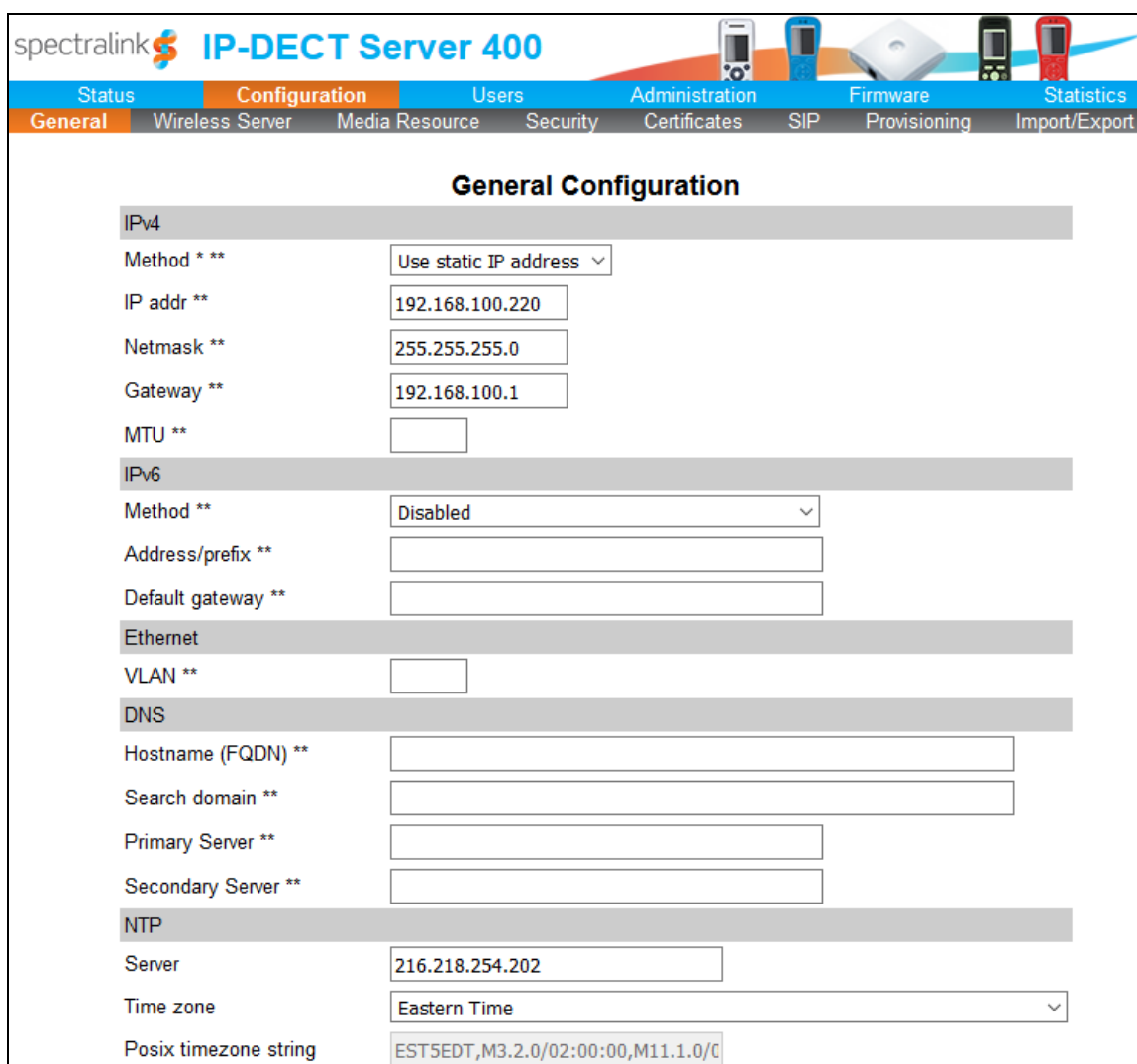


The image shows a standard Windows-style authentication dialog box titled "Authentication Required". It features a question mark icon on the left. The main text reads: "http://192.168.100.220 is requesting your username and password. The site says: 'IP6000'". Below this text are two input fields: "User Name:" and "Password:". At the bottom of the dialog are two buttons: "OK" and "Cancel".

6.2. Administer Network Settings

To configure network settings, click **Configuration** and then select the **General** tab. The Spectralink IP-DECT server 400 is pre-configured to use DHCP. However, for the compliance test, a static IP address was used as shown below.

If TLS transport is to be used, verify that the NTP server is configured properly to avoid any issues with the TLS certificates installed in **Section 6.5**.



The screenshot displays the Spectralink IP-DECT Server 400 web interface. The top navigation bar includes tabs for Status, Configuration (selected), Users, Administration, Firmware, and Statistics. Below this, a secondary bar shows sub-tabs: General (selected), Wireless Server, Media Resource, Security, Certificates, SIP, Provisioning, and Import/Export. The main content area is titled "General Configuration" and contains several sections with configuration fields:

- IPv4**: Method is set to "Use static IP address". IP address is 192.168.100.220, Netmask is 255.255.255.0, Gateway is 192.168.100.1, and MTU is empty.
- IPv6**: Method is set to "Disabled". Address/prefix and Default gateway fields are empty.
- Ethernet**: VLAN field is empty.
- DNS**: Hostname (FQDN), Search domain, Primary Server, and Secondary Server fields are empty.
- NTP**: Server is 216.218.254.202, Time zone is Eastern Time, and Posix timezone string is EST5EDT,M3.2.0/02:00:00,M11.1.0/C.

6.3. Administer SIP Settings

To configure SIP settings, click **Configuration** and then select the **SIP** tab. Configure the following fields:

- **Local port** Specify UDP port 5060 or TLS port 5061 depending on the transport protocol to be used. This also matches the ports configured on IP Office in **Section 5.2**.
- **Transport** Specify the transport protocol, UDP or TLS.
- **TCP ephemeral port in contact address** Enable this field for TLS transport; otherwise, disable it.

Retain the default values for the other fields.

The screenshot shows the 'SIP Configuration' page for the Spectralink IP-DECT Server 400. The page has a navigation bar with tabs: Status, Configuration (selected), Users, Administration, Firmware, and Statistics. Under Configuration, there are sub-tabs: General, Wireless Server, Media Resource, Security, Certificates, SIP (selected), Provisioning, and Import/Export. The main content area is titled 'SIP Configuration' and is divided into two sections: 'General' and 'Proxies'.

General

Local port * **	5061
Transport * **	TLS
DNS method * **	A records
Default domain * **	example.com
Register each endpoint on separate port **	<input type="checkbox"/>
Send all messages to current registrar **	<input type="checkbox"/>
Registration expire(sec) *	3600
Handset power off action	Ignore
Max forwards *	70
Client transaction timeout(msec) *	16000
SIP type of service (TOS/Diffserv) * **	96
SIP 802.1p Class-of-Service *	3
GRUU	<input checked="" type="checkbox"/>
Use SIPS URI	<input type="checkbox"/>
TLS allow insecure **	<input type="checkbox"/>
TCP ephemeral port in contact address **	<input checked="" type="checkbox"/>

Proxies

	Priority	Weight	URI
Proxy 1 **	1	100	
Proxy 2 **	2	100	
Proxy 3 **	3	100	
Proxy 4 **	4	100	

Scroll down to the **Message waiting indication** and **Media** sections. In the **Message waiting indication** section, select the **Enable indication** and **Enable subscription** check boxes as shown below. This is required to support updates to the Message Waiting Indicator (MWI) lamp. In the **Media** section, allow G.711 and G.729 as shown below.


DTMF signalling	
Send as RTP (rfc2833)	<input checked="" type="checkbox"/>
Offered rfc2833 payload type	<input type="text" value="96"/>
Send as SIP INFO	<input type="checkbox"/>
Tone duration(msec) *	<input type="text" value="270"/>
Message waiting indication	
Enable indication	<input checked="" type="checkbox"/>
Enable subscription **	<input checked="" type="checkbox"/>
Subscription expire(sec) *	<input type="text" value="3600"/>
Media	
Packet duration(msec) *	<input type="text" value="20"/>
Media type of service (TOS/Diffserv) *	<input type="text" value="184"/>
Media 802.1p Class-of-Service *	<input type="text" value="5"/>
Port range start * **	<input type="text" value="58000"/>
Codec priority *	<div>1: <input type="text" value="G729/8000"/></div> <div>2: <input type="text" value="PCMU/8000"/></div> <div>3: <input type="text" value="None"/></div> <div>4: <input type="text" value="None"/></div> <div>5: <input type="text" value="None"/></div> <div>6: <input type="text" value="None"/></div>
SDP answer with preferred codec	<input type="checkbox"/>
SDP answer with a single codec	<input type="checkbox"/>
Ignore SDP version	<input type="checkbox"/>
Enable media encryption (SRTP) **	<input checked="" type="checkbox"/>
Require media encryption (SRTP)	<input type="checkbox"/>
Include lifetime in SDES offers	<input type="checkbox"/>
Include MKI in SDES offers	<input type="checkbox"/>
Enable ICE	<input type="checkbox"/>
Enable TURN	<input type="checkbox"/>
TURN server	<input type="text"/>
TURN username	<input type="text"/>
TURN password	<input type="text"/>

Use the default settings for the **Call Status** section shown below. Click **Save**.

Call status	
Play on-hold tone	<input checked="" type="checkbox"/>
Provide Music-on-Hold	<input type="checkbox"/>
Display status messages	<input checked="" type="checkbox"/>
# key ends overlap dialing	<input type="checkbox"/>
Call waiting	<input checked="" type="checkbox"/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	
*) Required field **) Require restart © Spectralink Europe ApS All rights reserved.	

6.4. Add SIP Users

To create a SIP user for one of the Spectralink handsets, click **Users** and then click **List Users**. Next, click on the **New** button shown below.


IP-DECT Server 400

Status Configuration **Users** Administration Firmware Statistics

List Users Import/Export

User List

Overview

System ARI 10055530150 [10 2d ac 1a 00]

Users

Subscribed

Registered

Total 3 3 3

Show All entries Search:

<input type="checkbox"/>	Enabled	User	Displayname	IPEI	Handset	Firmware	Subscription	Registration	Latest activity
<input type="checkbox"/>	✓	40511	Spectralink 3	05003 0545850	Spectralink Butterfly	16D	✓	✓	✓
<input type="checkbox"/>	✓	41510	Spectralink 1	05003 0547786	Spectralink 7202	17C	✓	✓	✓
<input type="checkbox"/>	✓	41511	Spectralink 2	05003 0522849	Spectralink 7622	17C	✓	✓	✓

Showing 1 to 3 of 3 entries

First
Previous
1
Next
Last

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In the **User** page shown below, configure the following fields.

Under **DECT Device**:

- **IPEI** Type the IPEI number of the handset.

Under **SIP**:

- **Username / Extension** Set a user name or extension for handset.
- **Domain** Specify the LAN1 IP address of IP Office (e.g., *10.64.102.90*) shown in **Section 5.1**.
- **Displayname** Specify a display name for the handset (e.g., *Spectralink 1*).
- **Authentication user** Set to the SIP extension configured in **Section 5.3**.
- **Authentication password** Enter the password configured in the **Login Code** field in **Section 5.4**.

Retain the default values for the other fields. Click **Save**.

The screenshot shows the 'User 41510' configuration page in the Spectralink IP-DECT Server 400 web interface. The page has a blue header with the Spectralink logo and navigation tabs: Status, Configuration, Users (selected), Administration, Firmware, and Statistics. Below the tabs are links for 'List Users' and 'Import/Export'. The main content area is titled 'User 41510' and contains several sections: 'DECT device' with fields for Model (Spectralink 7202), Software part number (14225110), Item number (02600000), Firmware (17C), HW version (6), Production Id (0021 E44C 6737 4CA2), IPEI (05003 0547786), and Access code; 'User' with fields for Standby text (41510) and a Disabled checkbox; 'SIP' with fields for Username / Extension * (41510), Domain (10.64.102.90), Displayname (Spectralink 1), Authentication user (41510), and Authentication password (masked with dots); and 'Features' with a field for Call forward unconditional. At the bottom are 'Save', 'Delete', and 'Cancel' buttons, followed by a note: '*) Required field' and a copyright notice: '© Spectralink Europe ApS All rights reserved.'

6.5. Import TLS Certification (Optional)

This section is required for TLS transport and covers how to import the TLS certificate into IP-DECT Server 400. For the compliance test, Avaya Aura® System Manager was used as the certificate authority. The TLS certificate was exported from System Manager as described in Chapter 5, Managing Security, of references [2].

To import the TLS certificate, click **Configuration** and then click **Certificates**. In the **CA Certificates** section, click the **Browse** button to select the TLS certificate, and then click **Import List** to import the certificate. Once imported, the certificate will be listed as shown below. Note the *SystemManager CA* certificate.

IP-DECT Server 400

Navigation: Status | Configuration | Users | Administration | Firmware | Statistics

Sub-navigation: General | Wireless Server | Media Resource | Security | **Certificates** | SIP | Provisioning | Import/Export

Device certificate chain

Show entries Search:

Subject	Validity	SHA1 fingerprint	Issuer
0013D1904EF2 / Spectralink Inc.	2015-08-20 - 2030-08-20	53:31:74:5f:82:bf:c5:47:87:a2:5f:a2:7f:14:2f:f8:58:7d:37:d1	SpectraLink Issuing CA /
SpectraLink Issuing CA / Spectralink Inc.	2012-07-09 - 2037-07-09	95:e2:c1:74:22:c6:17:65:17:d0:7f:f7:0e:8e:df:d6:1a:b8:c2:c4	SpectraLink Root CA /
SpectraLink Root CA / Spectralink Inc.	2012-07-09 - 2037-12-31	f3:92:b9:87:e9:d6:4c:a6:53:ee:8c:ef:bb:3c:a1:7f:e9:e6:83:a2	SpectraLink Root CA /

Showing 1 to 3 of 3 entries First Previous **1** Next Last

Host certificate chain

Remove Certificate file: No file selected. Key file: No file selected. Password: Type: ☒ X.509 ☐ PKCS#12

CA Certificates

Clear List Restore Default List No file selected.

Show entries Search:

Common Name	Organization	SHA1 fingerprint
SystemManager CA	AVAYA	9b:c2:f6:57:f9:0e:66:9f:52:ae:08:74:3a:1a:dc:6d:22:92:58:e6

Showing 1 to 1 of 1 entries First Previous **1** Next Last

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7. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Avaya IP Office Server Edition and Spectralink IP-DECT Server 400.

1. Verify that the Spectralink handset has successfully registered with IP Office Server Edition. In **IP Office System Status**, select the extension of the Spectralink handset in the left pane and verify that the **Current State** is *Idle* as shown below.

The screenshot displays the Avaya IP Office System Status web interface. The title bar indicates the application is running on a Linux PC. The left sidebar contains a navigation menu with categories like System, Alarms, Extensions, Trunks, Active Calls, Resources, Voicemail, IP Networking, and Locations. The 'Extensions (4)' category is expanded, showing a list of extensions: 41000, 41001, 41510 (selected), and 41511. The main content area, titled 'Extension Status', displays detailed information for extension 41510, including its IP address, location, registrar, telephone type, and various call settings. At the bottom of this section, a table shows the current state of the extension as 'Idle' with a time in state of 00:10:01. Below the table are buttons for 'Trace', 'Trace All', 'Pause', 'Ping', 'Call Details', 'Print...', and 'Save As...'. The status bar at the bottom right shows the time as 11:48:55 AM and the extension is 'Online'.

Call Ref	Current State	Time in State	Calling Number or Called Number	Direction	Other Party on Call
	Idle	00:10:01			

- The registration status may also be viewed on the IP-DECT Server 400 web interface by navigating to **Users** as shown below.

IP-DECT Server 400

Navigation: Status | Configuration | **Users** | Administration | Firmware | Statistics

Sub-navigation: **List Users** | Import/Export

User List

Overview

System ARI: 10055530150 [10 2d ac 1a 00]

Users: 3 | Subscribed: 3 | Registered: 3

Buttons: New | Enable | Disable | Delete | Re-register | Un-subscribe | Firmware update

Show: entries | Search:

<input type="checkbox"/>	Enabled	User	Displayname	IPEI	Handset	Firmware	Subscription	Registration	Latest activity
<input type="checkbox"/>	✓	40511	Spectralink 3	05003 0545850	Spectralink Butterfly	16D	✓	✓	✓
<input type="checkbox"/>	✓	41510	Spectralink 1	05003 0547786	Spectralink 7202	17C	✓	✓	✓
<input type="checkbox"/>	✓	41511	Spectralink 2	05003 0522849	Spectralink 7622	17C	✓	✓	✓

Showing 1 to 3 of 3 entries | First | Previous | **1** | Next | Last

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- Verify basic telephony features by establishing calls between the Spectralink handset and another phone.

8. Conclusion

These Application Notes described the configuration steps required to integrate Spectralink IP-DECT Server 400 with Avaya IP Office Server Edition. Spectralink IP-DECT 400 allowed Spectralink 7000 Series and Butterfly Handsets to register with Avaya IP Office and establish calls to H.323 stations, SIP stations, and the PSTN. In addition, basic telephony features were verified. All feature and serviceability test cases were completed successfully with observations noted in **Section 2.2**.

9. References

This section references the Avaya and Spectralink documentation relevant to these Application Notes. The Avaya product documentation is available at <http://support.avaya.com> and the Spectralink documentation is available at <http://support.spectralink.com/products>.

- [1] *Administering Avaya IP Office Platform with Web Manager*, Release 10.0, September 2016.
- [2] *Administering Avaya Aura® Session Manager*, Release 7.0, Issue 2, May 2016.
- [3] *Spectralink IP-DECT Server 400 Installation and Configuration Guide*, 14219101 version 4.0, K005, September 2015.

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