



**Avaya Solution & Interoperability Test Lab**

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## **Application Note for the Polycom KIRK Wireless Server 6000 with Avaya Aura<sup>TM</sup> Session Manager 6.0 - Issue 1.0**

### **Abstract**

This Application Note describes a compliance-tested configuration comprised of Polycom KIRK Wireless Server 6000, KIRK 4040/5040 SIP DECT handsets and Avaya Aura<sup>TM</sup> Session Manager.

Information in this Application Note 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 a compliance-tested configuration comprised of Polycom KIRK Wireless Server 6000, Polycom KIRK 4040/5040 SIP DECT handsets and Avaya Aura™ Session Manager. For this compliance test, the Polycom KIRK SIP DECT 4040/5040 handsets and Avaya 9600 Series SIP telephones were registered to Avaya Aura™ Session Manager.

The Polycom KIRK Wireless Server 6000 is a wireless Digital Enhanced Cordless Telecommunications (DECT) solution capable of communicating with Avaya Aura™ Session Manager using standard SIP. The Polycom KIRK Wireless Server 6000 combines wireless DECT with SIP IP telephony. Each Polycom KIRK Wireless Server 6000 can register up to 4096 wireless DECT handsets and handle up to 1024 simultaneous calls.

Polycom offers a broad range of DECT handsets that address a broad range of end-user requirements, including the established 40xx series of robust handsets to the latest generation of industry-specific devices: 50xx series for retail/hospitality; 60xx series for manufacturing; 70xx series for healthcare. The testing includes examples for both generations of product to prove compatibility and interoperability for the entire product range.

## 1.1 Interoperability Compliance Testing

The purpose of the interoperability compliance testing is to verify interoperability of the Polycom KIRK Wireless Server 6000 and the Polycom KIRK 4040/5040 handsets with Avaya Aura™ Session Manager and Avaya SIP telephones. The following objectives for interoperability testing were identified:

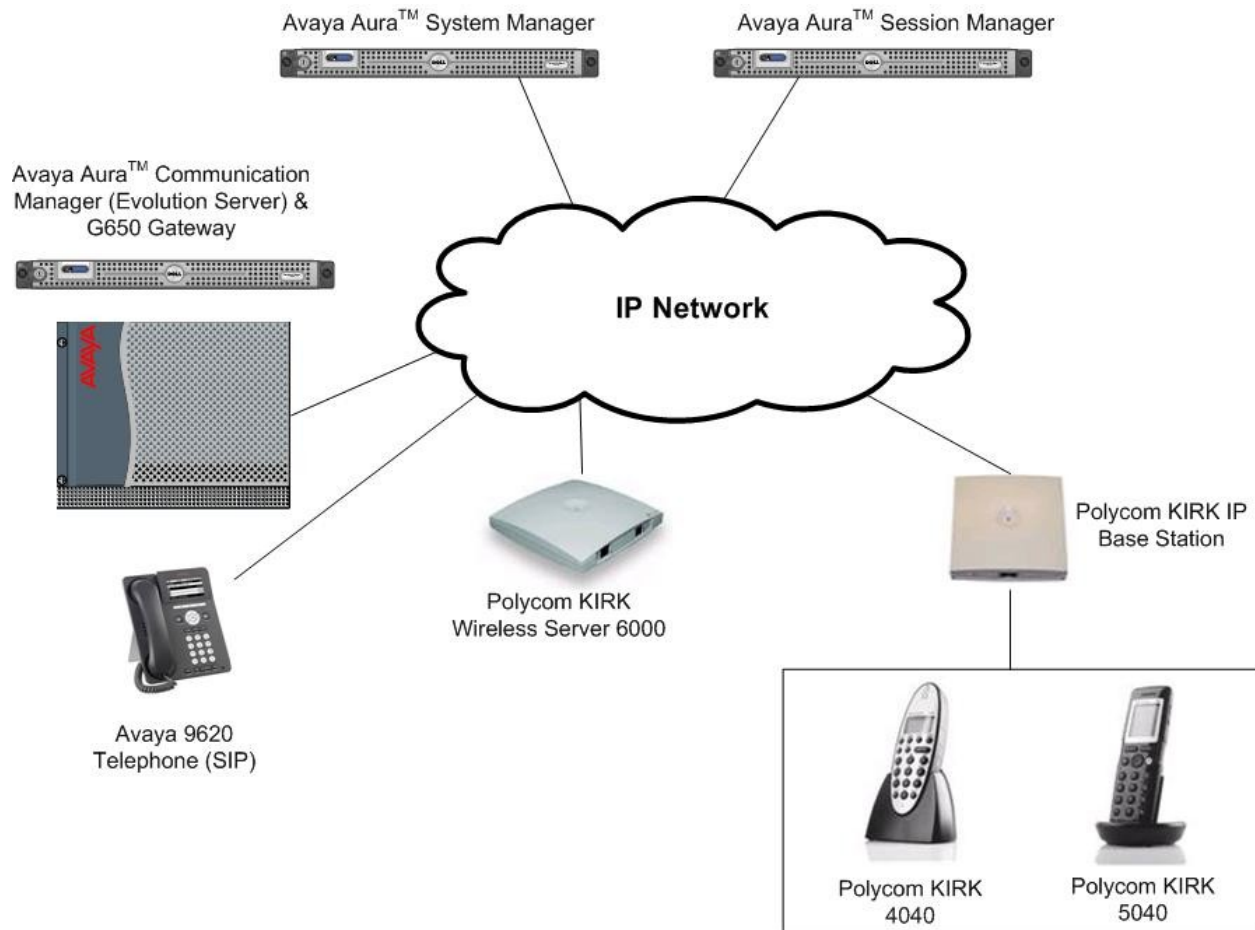
1. Demonstrate that Avaya Aura™ Session Manager and the Polycom KIRK 4040/5040 DECT handsets operate as specified and can interoperate in an environment similar to the one that will be encountered at a customer's premises.
2. Demonstrate that Avaya Aura™ Session Manager and the Polycom KIRK 4040/5040 DECT handsets, when used in the tested configurations, meet the serviceability and support standards of the respective organizations.
3. Observe and characterize how the products behave under failure conditions, and provide input for problem isolation procedures.

## 1.2 Support

Technical support can be obtained for Polycom KIRK products from Polycom. See the support link at <http://www.polycom.com/support/index.html> for contact information.

## 2 Reference Configuration

**Figure 1** illustrates the test configuration used during compliance testing to verify the KIRK Wireless Server 6000 solution. The configuration was comprised of an Avaya S8510 Server running Communication Manager (configured as an Evolution Server) with an Avaya G650 Media Gateway, an Avaya 8510 Server running System Manager, an Avaya S8510 Server running Session Manager, a KIRK Wireless Server 6000 solution with KIRK 4040/5040 DECT handsets.



**Figure 1: Network Topology**

### 3 Equipment and Software Validated

All the hardware and associated software used in the compliance testing is listed below.

Equipment	Software/Firmware
Avaya S8510 Server	Avaya Aura <sup>TM</sup> Communication Manager 6.0 SP1
Avaya G650 Media Gateway <ul style="list-style-type: none"><li>TN799DP C-LAN Circuit Pack</li><li>TN2312BP IP Server Interface</li><li>TN2602AP IP Media Pro</li></ul>	HW16 FW038 HW15 FW051 HW08 FW055
Avaya S8510 Server	Avaya Aura <sup>TM</sup> Session Manager 6.0
Avaya S8510 Server	Avaya Aura <sup>TM</sup> System Manager 6.0
Avaya 9620 IP Telephone (SIP)	2.6.2
Polycom KIRK KWS6000	PCS06A_
Polycom KIRK IP Base Station	PCS06A_
Polycom KIRK 4040 DECT handset	PCS06Uc
Polycom KIRK 5040 DECT handset	PCS08Eb

**Table 1: Hardware and Software Version Numbers**

## 4 Configuration of Avaya Aura™ Session Manager

These Application Notes assume that Session Manager and Communication Manager (Evolution Server) are configured and operational. This section focuses only on the configuration of the connection to the KIRK Wireless Server 6000 and the DECT users. The values configured in this section were used during the compliance test with default values being used for other fields not configured in these Application Notes. The procedures include the following areas:

- Log into Avaya Aura™ Session Manager
- Administer SIP Entity
- Administer Entity Link
- Add Users for DECT Phones

### 4.1 Log into Avaya Aura™ Session Manager

Access the System Manager using a Web Browser and entering *http://<ip-address>/SMGR*, where <ip-address> is the IP address of System Manager. Log in using appropriate credentials and accept the subsequent Copyright Legal Notice.

Avaya Aura™ System Manager 6.0

[Home](#) / [Log On](#)

**Log On**

You have successfully logged out.

Username :

Password :

By selecting **Routing** from the left panel menu, a short procedure for configuring Network Routing Policy is shown on the right panel.

**AVAYA**

Avaya Aura™ System Manager 6.0

Welcome, **admin** Last Logged on at September 3, 2010 5:16 PM

Help | About | Change Password | **Log off**

Home / Routing

▸ Elements

▸ Events

▸ Groups & Roles

Licenses

▾ **Routing**

Domains

Locations

Adaptations

SIP Entities

Entity Links

Time Ranges

Routing Policies

Dial Patterns

Regular Expressions

Defaults

▸ Security

▸ System Manager Data

▸ Users

Help

Landing Page

Help for Import All Data

Help for Export All Data

Help for Committing configuration changes

**Introduction to Network Routing Policy**

Network Routing Policy consists of several routing applications like "Domains", "Locations", "SIP Entities", etc.  
The recommended order to use the routing applications (that means the overall routing workflow) to configure your network configuration is as follows:  
  
Step 1: Create "Domains" of type SIP (other routing applications are referring domains of type SIP).  
  
Step 2: Create "Locations"  
  
Step 3: Create "Adaptations"  
  
Step 4: Create "SIP Entities"  
  
- SIP Entities that are used as "Outbound Proxies" e.g. a certain "Gateway" or "SIP Trunk"  
  
- Create all "other SIP Entities" (Session Manager, CM, SIP/PSTN Gateways, SIP Trunks)  
  
- Assign the appropriate "Locations", "Adaptations" and "Outbound Proxies"  
  
Step 5: Create the "Entity Links"  
  
- Between Session Managers  
  
- Between Session Managers and "other SIP Entities"  
  
Step 6: Create "Time Ranges"  
  
- Align with the tariff information received from the Service Providers  
  
Step 7: Create "Routing Policies"  
  
- Assign the appropriate "Routing Destination" and "Time Of Day"  
  
(Time Of Day = assign the appropriate "Time Range" and define the "Ranking")  
  
Step 8: Create "Dial Patterns"  
  
- Assign the appropriate "Locations" and "Routing Policies" to the "Dial Patterns"  
  
Step 9: Create "Regular Expressions"  
  
- Assign the appropriate "Routing Policies" to the "Regular Expressions"  
  
Each "Routing Policy" defines the "Routing Destination" (which is a "SIP Entity") as well as the "Time of Day" and its associated "Ranking".  
**IMPORTANT:** the appropriate dial patterns are defined and assigned afterwards with the help of the routing application "Dial patterns". That's why this overall routing workflow can be interpreted as  
  
**"Dial Pattern driven approach to define Routing Policies"**  
  
That means (with regard to steps listed above):  
  
Step 7: "Routing Policies" are defined  
  
Step 8: "Dial Patterns" are defined and assigned to "Routing Policies" and "Locations" (one step)  
  
Step 9: "Regular Expressions" are defined and assigned to "Routing Policies" (one step)

TPN; Reviewed:  
SPOC 11/8/2010

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KWS6000\_ASM60

## 4.2 Administer SIP Entity

A SIP Entity must be added for the KIRK Wireless Server 6000. To add a SIP Entity, select **SIP Entities** from the left panel menu and then click on the **New** button (not shown). Enter the following for the SIP Entity:

Under **General**:

- **Name** An informative name (e.g., **Polycom KWS6000**)
- **FQDN or IP Address** IP address of the signaling interface on the KWS6000
- **Type** **SIP Trunk**
- **Location** A predefined location
- **Time Zone** Time zone for this location

Click **Commit** to save changes.

**AVAYA** Avaya Aura™ System Manager 6.0

Welcome, **admin** Last Logged on at September 3, 2010 5:16 PM

Help | About | Change Password | **Log off**

Home / Routing / SIP Entities / SIP Entity Details

**SIP Entity Details**

**General**

\* Name: Polycom KWS6000

\* FQDN or IP Address: 135.64.186.169

Type: SIP Trunk

Notes:

Adaptation:

Location: Avaya 6.0

Time Zone: Europe/Dublin

Override Port & Transport with DNS SRV: ☐

\* SIP Timer B/F (in seconds): 4

Credential name:

Call Detail Recording: egress

**Commit** **Cancel**

### 4.3 Administer Entity Link

A SIP trunk between Session Manager and a telephony system is described by an Entity Link. To add an Entity Link, select **Entity Links** from the left panel menu and click on the **New** button (not shown). Fill in the following fields in the new row that is displayed.

- **Name** An informative name
- **SIP Entity 1** Select **SessionManager** (previously configured)
- **Port** Port number to which the other system sends its SIP requests
- **SIP Entity 2** The KWS6000 SIP Entity created in **Section 4.2**
- **Port** Port number to which the other system expects to receive SIP requests
- **Trusted** Whether to trust the other system (i.e., SIP Entity 2)
- **Protocol** Transport protocol to be used to send SIP requests

Click **Commit** to save changes.

Avaya Aura™ System Manager 6.0

Welcome, **admin** Last Logged on at September 3, 2010 5:16 PM

Help | About | Change Password | Log off

Home / Routing / Entity Links

Entity Links

Commit Cancel

1 Item Refresh Filter: Enable

Name	SIP Entity 1	Protocol	Port	SIP Entity 2	Port	Trusted	Notes
* Polycom KWS6000	* SessionManager	UDP	* 5060	* Polycom KWS6000	* 5060	<input checked="" type="checkbox"/>	

\* Input Required

Commit Cancel



## 4.4 Add Users for DECT Phones

Users must be added via Session Manager and the details will be updated on Communication Manager. Select **Users** → **Manage Users** on the left. Click on **New** (not shown). Enter a **First Name** and **Last Name**.

**AVAYA** Avaya Aura™ System Manager 6.0

Welcome, **admin** Last Logged on at September 3, 2010 5:16 PM

Help | About | Change Password | Log off

Home / Users / Manage Users / New User

**New User Profile** [Commit] [Cancel]

General | Identity | Communication Profile | Roles | Group Membership | Default Contact List | Private Contacts | Expand All | Collapse All

**General**

\* Last Name: 4040

\* First Name: Polycom

Middle Name:

Description:

Navigate to the **Identity** section and enter the following and use defaults for other fields:

- **Login Name** The desired phone extension *number@domain name*
- **Password** Password for user to log into System Manager
- **Shared Communication Profile Password** Password to be entered by the user when registering with Session Manager

**Identity**

\* Login Name: 51000@silstack.com

\* Authentication Type: Basic

**SMGR Login Password:**

\* Password:

\* Confirm Password:

**Shared Communication Profile Password:**

Confirm Password:

Localized Display Name:

Endpoint Display Name:

Honorific:

Language Preference:

Time Zone:

Navigate to and click on **Communication Profile** section to expand. Click on **Communication Address** to expand that section. Enter the following and defaults for the remaining fields:

- **Type** Select **Avaya SIP**
- **Fully Qualified Address** Enter the extension number

Click on **Add**.

**Communication Profile** ▼

New Delete Done Cancel

Name
Primary
Select : None

\* Name: Primary

Default : ☒

**Communication Address** ▼

New Edit Delete

Type	Handle	Domain
No Records found		

Type: Avaya SIP ▼

\* Fully Qualified Address: 51000 @ silstack.com ▼

Add Cancel

Navigate to and click on **Session Manager Profile** to expand that section. Enter the following fields and use defaults for the remaining fields:

- **Primary Session Manager** Select a Session Manager
- **Origination Application Sequence** Select a CM originating application sequence
- **Termination Application Sequence** Select a CM terminating application sequence
- **Home Location** Select a home location

Click on **Endpoint Profile** to expand that section. Enter the following fields and use defaults for the remaining fields:

- **System** Select the CM Entity
- **Extension** Enter a desired extension number
- **Template** Select a telephone type template
- **Port** Select IP

Click on **Commit** to save (not shown).

☒ Session Manager Profile

\* Primary Session Manager
 

SessionManager

Secondary Session Manager
 

(None)

Origination Application Sequence
 

CMES\_APPSEQ

Termination Application Sequence
 

CMES\_APPSEQ

Survivability Server
 

(None)

\* Home Location
 

Avaya 6.0

Primary	Secondary	Maximum
22	0	22

Primary	Secondary	Maximum

---

☒ Endpoint Profile

\* System
 

CMES

Use Existing Endpoints
 ☐

\* Extension
 

51000

Endpoint Editor

\* Template
 

DEFAULT\_9620SIP\_CM\_6\_0

Set Type
 

9620SIP

Security Code

\* Port
 

QIP

Voice Mail Number

Delete Endpoint on Unassign of Endpoint from User
 ☐

## 5 Configure KIRK Wireless Server 6000 Solution

This section focuses only on the configuration of the KIRK Wireless Server 6000 solution. The values configured in this section were used during the compliance tests with default values being used for other fields not configured in these Application Notes. The procedures include the following areas:

- Administer KIRK Wireless Server IP address
- Administer DECT handset subscription
- Enable Call Forward feature code
- Administer SIP configuration
- Administer DECT users
- Administer KIRK Base Station IP address
- Administer Wireless Sever host

### 5.1 Administer KIRK Wireless Server IP address

The default IP address of a KWS6000 is 192.168.0.1. Connect a PC directly to the KWS6000 with an Ethernet crossover cable. Open up an Internet browser and type in the following URL: ***http://192.168.0.1***. From the menu, click on **Configuration** → **General** and enter the following:

- **Use Static IP address** Click button to select
- **IP addr** Enter IP address
- **Netmask** Enter subnet mask address
- **Gateway** Enter default gateway address

Click **Save** (not shown) to save changes.

POLYCOM | KIRK Wireless Server 6000

Status Configuration Users Administration Firmware Statistics

General Wireless Server Media Resource Security SIP Provisioning Import/Export

**General Configuration**

IP

DHCP assigned ☐

Use static IP address ☒

IP addr\*\* 135.64.186.169

Netmask\*\* 255.255.255.192

Gateway\*\* 135.64.186.129

MTU\*\*

## 5.2 Administer DECT handset subscription

From the menu, click on **Configuration** → **Wireless Server**. Navigate to the **DECT** section and check the box next to **Subscription Allowed**. Click **Save** to save changes.

The screenshot shows the 'Wireless Server Configuration' page for a Polycom KIRK Wireless Server 6000. The 'DECT' section is active, and the 'Subscription allowed' checkbox is checked. Other settings include 'Authenticate calls' (unchecked), 'Encrypt voice/data' (Disabled), 'Autocreate users' (checked), 'System access code' (empty), 'Send date and time' (checked), 'Application interface' (Username: GW-DECT/admin, New password: empty, New password again: empty), 'Enable MSF \*\*' (checked), 'Enable XML-RPC \*\*' (unchecked), 'Internal messaging' (checked), 'Feature codes' (Enable: checked, Call forward unconditional - enable: \*21\*\$#, Call forward unconditional - disable: #21#). The 'Save' button is highlighted.

Wireless Server Configuration	
<b>DECT</b>	
Subscription allowed	<input checked="" type="checkbox"/>
Authenticate calls	<input type="checkbox"/>
Encrypt voice/data	Disabled
Autocreate users	<input checked="" type="checkbox"/>
System access code	
Send date and time	<input checked="" type="checkbox"/>
<b>Application interface</b>	
Username *	GW-DECT/admin
New password	
New password again	
Enable MSF **	<input checked="" type="checkbox"/>
Enable XML-RPC **	<input type="checkbox"/>
Internal messaging	<input checked="" type="checkbox"/>
<b>Feature codes</b>	
Enable	<input checked="" type="checkbox"/>
Call forward unconditional - enable	*21*\$#
Call forward unconditional - disable	#21#
<b>Save</b> <b>Cancel</b>	

## 5.3 Enable Call Forward Feature Code

From the menu, click on **Configuration** → **Wireless Server**. Navigate to the **Feature Codes** section and check the box next to **Enable**. Click **Save** to save changes.

The screenshot shows the 'Wireless Server Configuration' page for a Polycom KIRK Wireless Server 6000. The 'Feature codes' section is active, and the 'Enable' checkbox is checked. Other settings include 'Subscription allowed' (checked), 'Authenticate calls' (unchecked), 'Encrypt voice/data' (Disabled), 'Autocreate users' (checked), 'System access code' (empty), 'Send date and time' (checked), 'Application interface' (Username: GW-DECT/admin, New password: empty, New password again: empty), 'Enable MSF \*\*' (checked), 'Enable XML-RPC \*\*' (unchecked), 'Internal messaging' (checked), 'Feature codes' (Enable: checked, Call forward unconditional - enable: \*21\*\$#, Call forward unconditional - disable: #21#). The 'Save' button is highlighted.

Wireless Server Configuration	
<b>DECT</b>	
Subscription allowed	<input checked="" type="checkbox"/>
Authenticate calls	<input type="checkbox"/>
Encrypt voice/data	Disabled
Autocreate users	<input checked="" type="checkbox"/>
System access code	
Send date and time	<input checked="" type="checkbox"/>
<b>Application interface</b>	
Username *	GW-DECT/admin
New password	
New password again	
Enable MSF **	<input checked="" type="checkbox"/>
Enable XML-RPC **	<input type="checkbox"/>
Internal messaging	<input checked="" type="checkbox"/>
<b>Feature codes</b>	
Enable	<input checked="" type="checkbox"/>
Call forward unconditional - enable	*21*\$#
Call forward unconditional - disable	#21#
<b>Save</b> <b>Cancel</b>	

## 5.4 Administer SIP Configuration

This section details the settings needed to create the SIP connection from the KWS6000 to the Session Manager. Preferred audio codecs and message waiting indications are also set. From the menu, go to **Configuration** → **SIP** and enter the following:

- **Local Port**                **5060**
- **Transport**                **UDP only**
- **Default Domain**        Enter domain name (e.g. **silstack.com**)

The screenshot shows the KWS6000 configuration interface. The top navigation bar includes 'Status', 'Configuration', 'Users', 'Administration', 'Firmware', and 'Statistics'. The 'Configuration' tab is active, and the 'SIP' sub-tab is selected. The 'SIP Configuration' section is titled 'General'. The following fields are visible and highlighted with red boxes: 'Local port' (5060), 'Transport' (UDP only), and 'Default domain' (silstack.com). Other fields include 'Register each endpoint on separate port' (unchecked), 'Send all messages to current registrar' (unchecked), 'Registration expire(sec)' (3600), 'Max forwards' (70), and 'SIP type of service (TOS/Diffserv)' (96).

Navigate to the **Proxies** section and on the **Proxy 1** row enter the sip **URI** for the Session Manager SM100 IP address.

The screenshot shows the 'Proxies' section. A table with four columns: 'Proxy', 'Priority', 'Weight', and 'URI'. The first row is highlighted with a red box. The 'URI' column contains the value 'sip:135.64.186.134'.

Proxy	Priority	Weight	URI
Proxy 1 **	1	100	sip:135.64.186.134
Proxy 2 **	2	100	
Proxy 3 **	3	100	
Proxy 4 **	4	100	

Navigate to the **Message waiting indication** section, check the boxes next to **Enable indication** and **Enable subscription**.

The screenshot shows the 'Message waiting indication' section. The following fields are visible and highlighted with red boxes: 'Enable indication' (checked), 'Enable subscription' (checked), and 'Subscription expire(sec)' (3600).

Navigate to the **Media** section and select preferred codecs and priority. Click on **Save** to save changes.

<b>Media</b>													
Packet duration(msec) *	20 ▾												
Media type of service (TOS/Diffserv) * **	184												
Port range start * **	58000												
<b>Codec priority *</b>	<table><tr><td>1:</td><td>PCMU/8000 ▾</td></tr><tr><td>2:</td><td>PCMA/8000 ▾</td></tr><tr><td>3:</td><td>None ▾</td></tr><tr><td>4:</td><td>None ▾</td></tr><tr><td>5:</td><td>None ▾</td></tr><tr><td>6:</td><td>None ▾</td></tr></table>	1:	PCMU/8000 ▾	2:	PCMA/8000 ▾	3:	None ▾	4:	None ▾	5:	None ▾	6:	None ▾
1:	PCMU/8000 ▾												
2:	PCMA/8000 ▾												
3:	None ▾												
4:	None ▾												
5:	None ▾												
6:	None ▾												
Require symmetric RTP **	<input checked="" type="checkbox"/>												
SDP answer with preferred codec	<input type="checkbox"/>												
SDP answer with a single codec	<input type="checkbox"/>												
<b>Call status</b>													
Play on-hold tone	<input checked="" type="checkbox"/>												
Display status messages	<input checked="" type="checkbox"/>												
# key ends overlap dialing	<input type="checkbox"/>												
Call waiting	<input checked="" type="checkbox"/>												
<b>Save</b>	Cancel												



## 5.5 Administer DECT users

From the menu, go to **Users** → **List Users** and click on the **New** button to add a new user.

The screenshot shows the web interface of the POLYCOM KIRK Wireless Server 6000. The top navigation bar includes links for Status, Configuration, **Users**, Administration, Firmware, and Statistics. Below this, there are tabs for List Users and Import/Export. The main content area is titled "User List" and contains a "Users overview" table. The table has columns for Total, Users, Subscribed, and Registered. The data shows 2 total users, 2 subscribed, and 2 registered. Below the table, there is a "New" button, a search field, and navigation controls.

User List			
Users overview			
	Users	Subscribed	Registered
Total	2	2	2
Listed	2	2	2

**New**   << < 1 > >>

Enter the following in the new **User** window:

- **IPEI** Enter the handset IPEI
- **Access Code** Enter a desired access code (Optional)
- **Standby Text** Enter desired standby text (Optional)
- **Username / Extension** Enter the extension number defined in **Section 4.4**
- **Domain** Enter the domain name used in **Section 4.4**
- **Displayname** Enter a desired display name (Optional)
- **Authentication User** Enter the user defined in **Section 4.4**
- **Authentication Password** Enter the **Shared communication profile password** defined in **Section 4.4**

Click on **Save** to save changes.

The screenshot shows the "User" configuration window. It has two main sections: DECT and SIP. The DECT section includes fields for IPEI (00077 0988702), Access code (1234), and Standby text (idle). The SIP section includes fields for Username / Extension \* (51000), Domain (silstack.com), Displayname (4040), Authentication user (51000), and Authentication password (masked with dots). There is also a "Disabled" checkbox which is unchecked. At the bottom, there is a "Features" section with a "Call forward unconditional" field. The "Save" button is highlighted with a red box.

**User**

**DECT**

IPEI

Access code

Standby text

**SIP**

Username / Extension \*

Domain

Displayname

Authentication user

Authentication password

Disabled ☐

**Features**

Call forward unconditional



## 5.6 Administer KIRK Base Station IP address

The default IP address of a KIRK Base Station is 192.168.0.1. Connect a PC directly to the Base Station with an Ethernet crossover cable. Open up an Internet browser and type in the following URL: **http://192.168.0.1**. From the menu, click on **Configuration** → **General** and enter the following:

- **Use Static IP address** Click button to select
- **IP addr** Enter IP address
- **Netmask** Enter subnet mask address
- **Gateway** Enter default gateway address

Click **Save** (not shown) to save changes.

The screenshot shows the POLYCOM KIRK Base Station web interface. The top navigation bar includes 'General', 'Base Station', 'Security', 'Configuration', and 'Firmware'. The 'Configuration' tab is selected, showing the 'General Configuration' section. Under the 'IP' heading, there are two radio buttons: 'DHCP assigned' (unselected) and 'Use static IP address' (selected). Below these are four text input fields: 'IP addr\*\*' with the value '135.64.186.171', 'Netmask\*\*' with '255.255.255.192', 'Gateway\*\*' with '135.64.186.129', and 'MTU\*\*' which is empty. A red box highlights the 'Use static IP address' radio button and the three IP-related input fields.

## 5.7 Administer Wireless Sever host

From the menu, go to **Configuration** → **Base Station** and for **Host** enter the ip address of the KIRK Wireless Server 6000 configured in **Section 5.1**. Click **Save** to save changes.

The screenshot shows the POLYCOM KIRK Base Station web interface. The top navigation bar includes 'General', 'Base Station', 'Security', 'Configuration', and 'Firmware'. The 'Configuration' tab is selected, showing the 'Base station Configuration' section. Under the 'Wireless Server Host' heading, there is a 'Host\*\*' text input field containing the value '135.64.186.169'. Below the input field are three buttons: 'Save', 'Cancel', and 'Reboot'. A red box highlights the 'Host\*\*' input field and the 'Save' button. At the bottom, a small note reads: '\* ) Required field \*\* ) Require restart'.

## 6 General Test Approach and Test Results

The compliance testing focused on the ability of the KIRK Wireless Server 6000 and KIRK DECT handsets to interoperate with the Session Manager and Avaya 9600 Series IP telephones. The interoperability compliance test included feature and serviceability testing. The KIRK 4040 and 5040 handsets functioned correctly with good audio quality in both directions. Functionality was tested across a range of basic telephony operations such as:

- Basic calls to/from Avaya and KIRK DECT handsets
- Call Hold
- Call Transfer (Blind and Supervised)
- Call Diversion/Forwarding
- Conference Calls
- Message Waiting
- Caller ID
- Handset messaging

The serviceability tests were performed by resetting and reconnecting the KIRK DECT handsets, restarting the Session Manager and resetting the KIRK Wireless Server 6000.

## 7 Verification Steps

To verify that the KIRK Wireless Sever 6000 is operating properly, go to the KWS6000 web admin tool. From the menu bar, go to **Users** → **List Users** and verify that each user has subscribed and registered successfully.



**POLYCOM | KIRK Wireless Server 6000**

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

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

### User List

Users overview

	Users	Subscribed	Registered
Total	2	2	2
Listed	2	2	2

New  Search << < 1 > >>

Enabled	User	Displayname	IPEI	Sw PartNo - Pcs	Subscription	Registration
✓	51000	4040	00077 0988702	14122800 - 06U	✓	✓
✓	51002	5040	00077 0591626	14141251 - 08E	✓	✓

## 8 Conclusion

These Application Notes describe the configuration steps required for the Polycom KIRK Wireless Server 6000 solution to successfully interoperate with Avaya Aura™ Session Manager and Avaya Aura™ Communication Manager. All feature functionality and serviceability test cases were completed successfully.

## 9 Additional References

This section references the Avaya and Polycom KIRK product documentation that are relevant to these Application Notes.

Product documentation for Avaya products may be found at <http://support.avaya.com>

[1] *Administering Avaya Aura™ Session Manager*, Doc # 03-603324, Issue 3

[2] *Administering Avaya Aura™ Communication Manager*, Doc # 03-300509, Issue 6.0

Product documentation for Polycom KIRK Wireless Solution 6000 may be found at:  
[http://www.polycom.com/support/voice/dect/dect\\_ws\\_6000.html](http://www.polycom.com/support/voice/dect/dect_ws_6000.html)

[1] *KIRK Wireless Server 6000 Installation and Configuration Guide*, Version 2

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