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# Polycom IP Phone Configuration Guides

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# For wireless server 300

Configuring Polycom KIRK Wireless Server 300 with MyPBX

## IMPORTANT:

This guide has been tested with the following Firmware PCS06A. Be aware that different firmware revisions may have different web interface formats and functionality.

## Register with MyPBX

1. Ensure that you have created the extension that you wish to use with the phone in MyPBX first. Take note of the Extension Number and password that you have entered for this extension.
2. Connect the Polycom KIRK Wireless Server 300 to the network using PoE. It will boot up, and providing you have DHCP installed on your network, will obtain an IP address. Now you can access the phone's web Configuration page by going to `http://x.x.x.x` where `x.x.x.x` is the IP address of the phone, the factory default username and password for accessing web Configuration on KWS300 is "admin" and "kws300".
3. General Configuration settings

### General Configuration

IP	
DHCP assigned	<input checked="" type="radio"/>
Use static IP address	<input type="radio"/>
IP addr**	<input type="text" value="192.168.0.1"/>
Netmask**	<input type="text" value="255.255.255.0"/>
Gateway**	<input type="text"/>
MTU**	<input type="text"/>
DNS	
Domain	<input type="text"/>
Primary Server	<input type="text" value="10.172.0.90"/>
Secondary Server	<input type="text"/>
NTP	
Server**	<input type="text" value="pool.ntp.org"/>
Time zone	<input type="text" value="GMT+2"/>

\*) Required field \*\*) Require restart

Figure 1-1

In the "Configuration\General" Section under "General Configuration", define IP, DNS and NTP settings for the KWS300.

4. Wireless Server Configuration

### Wireless Server Configuration

**DECT**

Subscription allowed

Authenticate calls

Encrypt voice/data

Autocreate users

System access code

Send date and time

**Application interface**

Username \*

New password

New password again

Enable MSF \*\*

Enable XML-RPC \*\*

\*) Required field \*\*) Require restart

Figure 1-2

In the "Configuration /General" Section under "Wireless Server", configure the KWS300 to allow subscriptions. Handsets will not subscribe to the KIRK if this option is not enabled. Check the option "Auto Create Users". If enabled, unknown users will be automatically added to the system.

Enter a System Access Code. This is a system wide DECT access code required to subscribe handsets. In this example the Access Code is 456. You will be prompted for this code after powering up each handset.

5. Sip Configuration

### SIP Configuration

General		
Local port * **	<input type="text" value="5060"/>	
Transport * **	<input type="text" value="UDP only"/>	
Default domain * **	<input type="text" value="sip.test.com"/>	
Register each endpoint on separate port	<input type="checkbox"/>	
Send all messages to current registrar	<input type="checkbox"/>	
Registration expire(sec) *	<input type="text" value="600"/>	
Max forwards *	<input type="text" value="70"/>	
SIP type of service (TOS/Diffserv) * **	<input type="text" value="96"/>	
Proxies		
	Priority	Weight
Proxy 1 **	<input type="text" value="1"/>	<input type="text" value="100"/>
		URI
		<input type="text" value="sip:192.168.5.150"/>
Proxy 2 **	<input type="text" value="2"/>	<input type="text" value="100"/>
		<input type="text"/>
Proxy 3 **	<input type="text" value="3"/>	<input type="text" value="100"/>
		<input type="text"/>
Proxy 4 **	<input type="text" value="4"/>	<input type="text" value="100"/>
		<input type="text"/>
Authentication		
Default user *	<input type="text" value="500"/>	
Default password	<input type="text" value="***"/>	
DTMF signalling		
Send as RTP (rfc2833)	<input checked="" type="checkbox"/>	
Offered rfc2833 payload type	<input type="text" value="101"/>	
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"/>	
Port range start * **	<input type="text" value="10000"/>	
Codec priority *	1: <input type="text" value="PCMU/8000"/>	
	2: <input type="text" value="PCMA/8000"/>	
Require symmetric RTP **	<input checked="" type="checkbox"/>	
Call status		
Play on-hold tone	<input checked="" type="checkbox"/>	
Display status messages	<input checked="" type="checkbox"/>	

Figure 1- 3

Click on Configuration / SIP and comfit SIP settings which include type of transport, default domain, registration interval, Proxy addresses, DTMF signaling, message waiting indicator options and media settings. Also check "Play on-hold tone" to

- enable playing of music on hold during Hold/Resume and transfer operations. In addition, the 'payload type' should be set as 101 for successful registration.
6. Click on Users to Configure in the KIRK wireless server. You can configure in 2 ways – either manually or with the option Auto Create Users. This example will describe the Auto create users method.
    - 1) Power on a handset. For this example, the handset used is a POLYCOM KIRK 5020. Click on menu, Settings, Advanced, Login, and press the Create Login soft key. The handset will start searching for DECT connections.
    - 2) A number will be displayed on the handset display. Select this number and press ok. Enter the Access Code (in this 456) and press OK.
    - 3) Go to the User List section in the KIRK server web console and you will notice that a new user is created. At this point the user is subscribed to the KIRK but unknown / unregistered to MyPBX.



Figure 1- 4

Click this user account and a USER screen will be displayed.

### User IPEI000770956035

DECT	
IPEI	<input type="text" value="00077 0956035"/>
Access code	<input type="text"/>
Standby text	<input type="text" value="Roaming"/>
SIP	
Username / Extension *	<input type="text" value="500"/>
Domain	<input type="text" value="192.168.5.150"/>
Displayname	<input type="text" value="Fred House"/>
Authentication user	<input type="text" value="500"/>
Authentication password	<input type="password" value="..."/>
Disabled	<input type="checkbox"/>
<input type="button" value="Save"/> <input type="button" value="Delete"/> <input type="button" value="Cancel"/>	

\*) Required field

Figure 1-5

- 4) Enter the following information as depicted in the above screenshot
- In the SIP section, enter 500 as the Username/Extension field
  - Enter the Domain or IP address of the MyPBX Server Example: 192.168.5.150
  - Configure a display name for this handset Example: Fred House
  - Enter Authentication user and Authentication password details in the respective fields.  
These must match the credentials entered in MyPBX Management console when extension 500 was created.
  - Uncheck the checkbox "Disabled" to enable this handset.
  - Press on the Save button and you will notice that the updated User List contains a new entry for Extension 500 with the display name of Fred House.



User List							
Users overview							
		Users Subscribed		Registered			
Total		1	1	1	1		
Listed		1	1	1	1		
<input type="button" value="New"/> <input type="text"/> <input type="button" value="Search"/> <input type="button" value="&lt;&lt;"/> <input type="button" value="&lt;"/> <input type="text" value="1"/> <input type="button" value="&gt;"/> <input type="button" value="&gt;&gt;"/>							
Enabled	User	Displayname	SIP	SIP PartNo	Pbx	Subscription	Registration
<input checked="" type="checkbox"/>	500	Fred House	00077 096035	00000000	000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Figure 1-6

This screenshot shows that the handset is subscribed to the KIRK server and also registered to the MyPBX server.

Congratulations – You have successfully configured the KIRK Wireless Server 300 together with Polycom Handsets to work with MyPBX.

# For soundPoint & SoundStationn

Manually Configure a Polycom Sound Point IP 321, 331, 450, 550, 560, 650, 670 with MyPBX

## Important:

This guide has been tested with firmware version 3.3.1 and Bootrom 4.3.0. Be aware that different firmware revisions may have different web interface formats and functionality.

It is based on a new phone OR one that has been reset to factory defaults. If in doubt, reset the phone to Factory Defaults..

## Register with MyPBX

1. Start up the phone and identify its IP Address – using the menu key on the phone, go to the "Status" option, then to the "Network" option, and select the "TCP/IP Parameters" option. For this example we will assume the IP Address of the phone is 192.168.5.126, and the IP Address of the MyPBX machine is 192.168.5.150.
2. Point your browser to the web interface of the phone: <http://192.168.5.126>

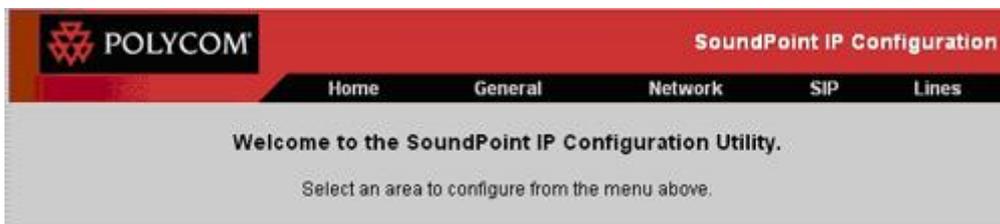


Figure 2-1

3. We now need to set the phone to register with MyPBX. Click on the "Lines" tab, and configure as follows:

Line 1	
<b>Identification</b>	
Display Name	Polycom SoundPoint IP320
Address	500
Auth User ID	500
Auth Password	****
Label	500
Type	<input checked="" type="radio"/> Private <input type="radio"/> Shared
Third Party Name	
Num Line Keys	
Calls Per Line	
<b>Server 1</b>	
Address	192.168.5.150
Port	5060
Transport	DNSnaptr
Expires	3600

Figure 2-2

4. In the "Identification" section of the "Lines" tab:
  - 1) Set the "Display Name" field to the name you want to appear on the Phone display.
  - 2) Set the "Address" field to the extension number you want to associate with this phone.
  - 3) Set the "Auth User ID" field to the extension's number.
  - 4) Set the "Auth Password" field to the extension's Password.
5. In the "Server 1" section of the "Lines" tab:
  - 1) Set the "Address" field to the IP Address of MyPBX server – in this example, 192.168.5.150.
  - 2) Set the "Port" field to 5060, which is the default
6. In the "Local Settings" section of the "SIP" page, set the "Digit map" field to blank by removing all the contents.

Local Settings	
Local SIP Port	<input type="text"/>
Calls Per Line Key	<input type="text"/>
New SDP Type	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
LCS Support	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
Non Standard Line Seize	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Digitmap	<input type="text"/>
Digitmap Timeout	<input type="text"/>
Remove End-Of-Dial Marker	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Digitmap Impossible Match	<input type="text" value="0"/>

Figure 2-3

- Click the "Submit" button at the bottom of the page. Your phone will restart. After rebooting, the phone will register with MyPBX. This can be verified via the "Line Status" page of MyPBX Management Console.

# For Sound Station IP6000

Configuring Polycom Sound Station IP6000 with MyPBX

## IMPORTANT :

This guide has been tested with Boot ROM 4.3.0 and firmware SIP 3.3.1. Be aware that different firmware revisions may have different web interface formats and functionality.

This guide is applicable for the following Polycom Sound station models: Polycom Sound Station IP6000 and IP7000 for use with MyPBX.

## Register with MyPBX

1. Obtain the IP address of the phone to be able to access the web interface. Press "Menu" on the phone and select "Status". From that menu select "Network" and then "TCP/IP Configuration Parameters". You will be shown the IP of the phone. Use your web browser to navigate to this IP. The interface will be shown. Default user name is Polycom, Password is 456
2. Click on the SIP tab and "Outbound Proxy"

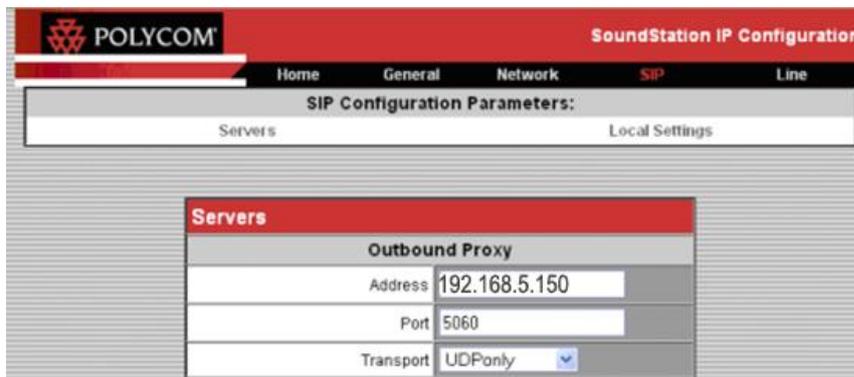
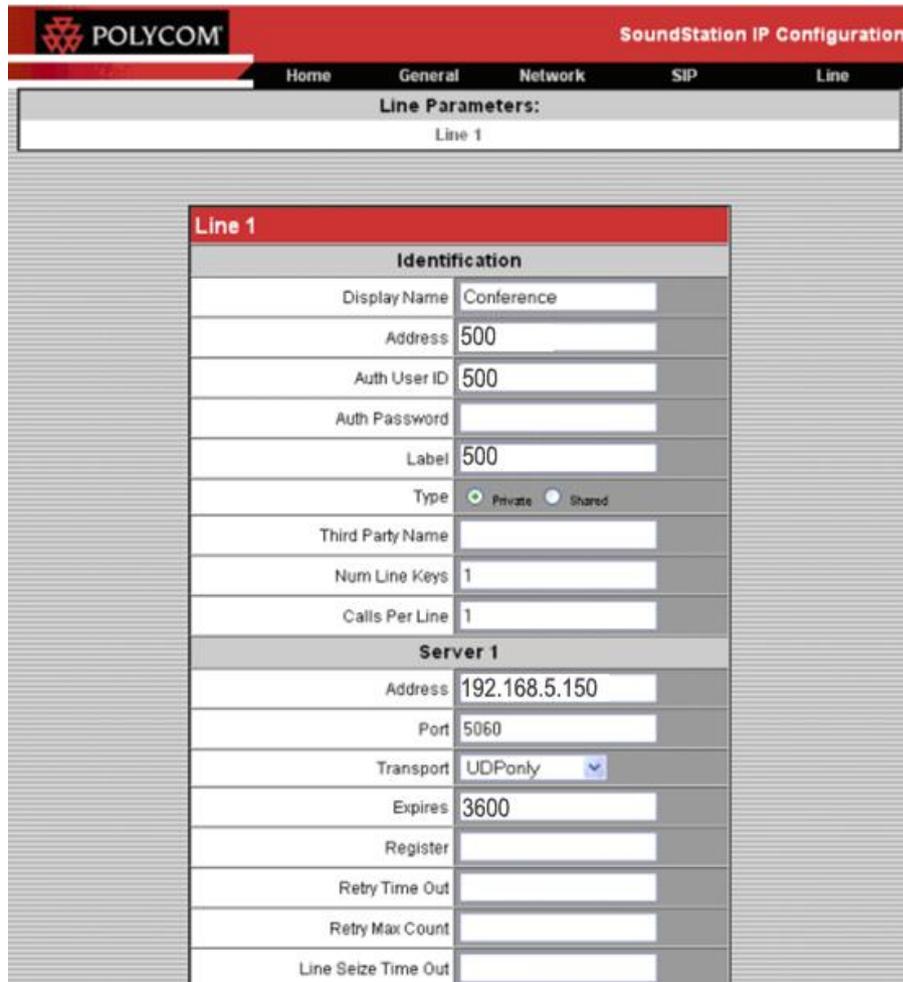


Figure 3-1

In the "Servers" section, under "Outbound Proxy" configure the fields as follows:

- 1) Address: Enter the IP Address of the MyPBX - example: 192.168.5.150
  - 2) Port: 5060
  - 3) Transport: UDP only
  - 4) Expires: 3600
3. Click "Submit". The phone will restart. After restarting, go back to the web interface and click the "LINE" tab.



The screenshot shows the 'Line Parameters' configuration page for 'Line 1'. The interface includes a navigation bar with 'Home', 'General', 'Network', 'SIP', and 'Line' tabs. The 'Line Parameters' section is titled 'Line 1' and contains two main sections: 'Identification' and 'Server 1'.

Line 1	
Identification	
Display Name	Conference
Address	500
Auth User ID	500
Auth Password	
Label	500
Type	<input checked="" type="radio"/> Private <input type="radio"/> Shared
Third Party Name	
Num Line Keys	1
Calls Per Line	1
Server 1	
Address	192.168.5.150
Port	5060
Transport	UDPonly
Expires	3600
Register	
Retry Time Out	
Retry Max Count	
Line Seize Time Out	

Figure 3-2

4. Under the "Identification" section, configure the following settings:
  - 1) Display Name: Enter an identifier, for example "Conference"
  - 2) address: The extension number as set in MyPBX
  - 3) Auth User ID: extension number Configured in MyPBX
  - 4) Auth Password: Password Configured in MyPBX
  - 5) Label: An identifier, you can put the extension number here
  - 6) Num Line Keys: 1
  - 7) Calls Per Line: 1
5. Under the section "Server 1" user the following settings:
  - 1) Address: IP address of the PBX, in this example ,the IP address is 192.168.5.150
  - 2) Port: 5060
  - 3) Transport: UDP only
  - 4) Expires: 3600

Now click on the submit button. The phone will restart and register with MyPBX.

<Finish>