

Setting-Up SPA3000 as a PSTN Gateway of SPA9000

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Introduction

This article is one in a series to assist in the setup, troubleshooting, and maintenance of Cisco Small Business products.

Q. How can I set-up the SPA3000 as PSTN Gateway of SPA9000 to make all calls go to Auto Attendant and allow phones registered to SPA9000 to call out on POTS?

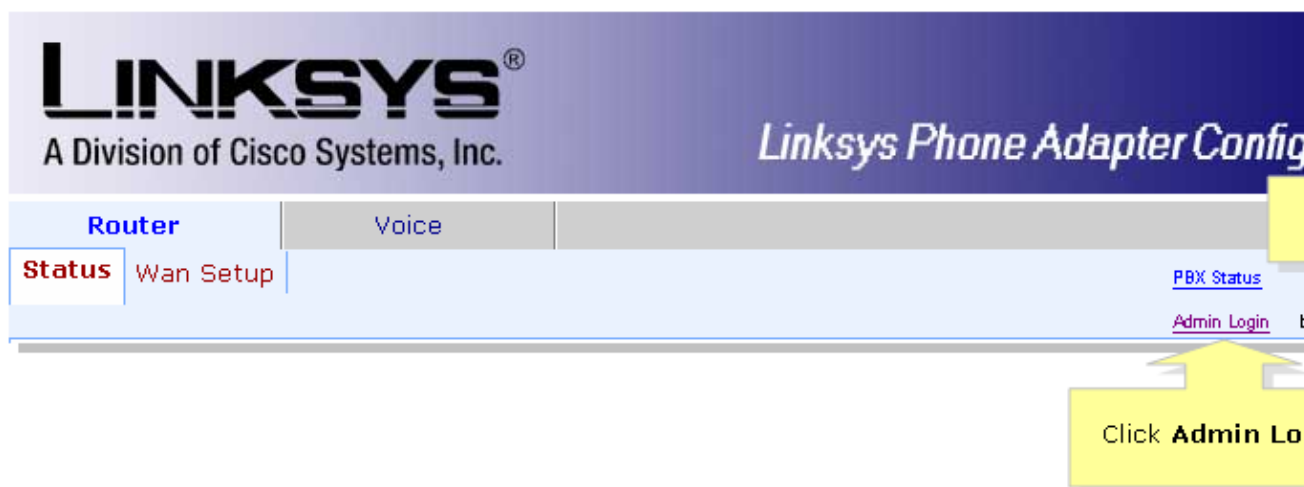
A.

Calls from POTS can automatically go to Auto Attendant and any phone registered to SPA9000 can call out on POTS by dialing the User-ID on the SPA3000's PSTN Line (103).

Note: This article assumes: Internet -----SPA9000 (with analog phone on FXS 1-----SWITCH-----SPA IP phone and SPA-3000 (PSTN Line connected to FXO port).

Step 1:

Register Line 1 of SPA9000 to VoIP (Optional). Access the SPA9000's web-based setup page, and click *Admin Login* then *advanced*.



Step 2:

Click *Voice* then *Line 1*. Scroll down and under *Subscriber Information*, provide the necessary information for the *User ID* and *Password* fields. Under *Proxy and Registration*,

look for **Proxy**, and enter the required proxy value given by your VOIP provider. Scroll down to the bottom, and click [Submit All Changes](#) in order to save your settings.

The screenshot shows the Linksys Phone Adapter Configuration interface. At the top, the 'Voice' tab is selected in the navigation menu. Below it, 'Line 1' is highlighted. The form contains several sections: 'Subscriber Information' with fields for Display Name, Password, Auth ID, Contact List, and Cfw No Ans Delay; 'Dial Plan' with a field for Dial Plan; 'NAT Settings' with fields for NAT Mapping Enable, NAT Keep Alive Msg, EXT SIP Port, NAT Keep Alive Enable, NAT Keep Alive Dest; and 'Proxy and Registration' with fields for Proxy, Outbound Proxy, Register, Register Expires, Use DNS SRV, Proxy Fallback Intvl, Mailbox Subscribe URL, Mailbox Manage URL, Use OB P, Make Call Without Reg, Ans Call Without Reg, DNS SRV Auto Prefix, Proxy Redundancy Method, Mailbox Deposit URL, and Mailbox Status. Yellow callout boxes with arrows point to the 'Voice' tab, 'Line 1' tab, the Password field, the User ID field, and the Proxy field.

Step 3:

Click **Line 2** and set **Line 2** of the SPA9000 with a **User-ID** (ie:103) then click **Submit All Changes**.

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A Division of Cisco Systems, Inc.

Line 2 Adapter Configuration

Router | **Voice** | Info | System | SIP | Provisioning | Regional | FXS 1 | FXS 2 | Line 1 | **Line 2** | Line 3 | Line 4 | [PBX Status](#) | [User Login](#)

Line Enable: no

Network Settings
SIP ToS/DiffServ Value: 0x68 | SIP CoS Value: 3 [0-7]

SIP Settings
SIP Port: 5061 | SIP 100REL Enable: no
Auth Resync-Reboot: yes | SIP Proxy-Require:
SIP Remote-Party-ID: yes | SIP Debug Option: none
Restrict Source IP: no | Referor Bye Delay:
Refer Target Bye Delay: 0 | Referee Bye Delay:
Refer-To Target Contact: no

Subscriber Information
Display Name: | User ID:
Password: | Use Auth ID: no
Auth ID: | Call Capacity: unlimited
Contact List: aa
C fwd No Ans Delay: 20

Enter the **User ID** on this field.

Step 4:

Access the SPA3000's web-based setup page. Click *Admin Login*, then *advanced*.

SIPURA
technology, inc.

Sipura Phone Adapter Configuration

Info | System | User 1 | **PSTN User** | [Admin Login](#)

Click **Admin Login**

Step 5:

Click *PSTN Line*.

Click **PSTN Line**.

Step 6:

Scroll down and under **Proxy and Registration**, manually register the PSTN Line of SPA3000 to SPA9000.

Proxy: 192.168.0.1:6060 (SPA9000 Proxy Network Interface is set to LAN)

User-ID: 102 (example only)

Enter "192.168.0.1:6060" in the **Proxy** field.

Proxy and Registration			
Proxy:	<input type="text"/>	Use Outbound Proxy:	<input type="text" value="no"/>
Outbound Proxy:	<input type="text"/>	Use OB Proxy In Dialog:	<input type="text" value="yes"/>
Register:	<input type="text" value="yes"/>	Make Call Without Reg:	<input type="text" value="no"/>
Register Expires:	<input type="text" value="3600"/>	Ans Call Without Reg:	<input type="text" value="no"/>
Use DNS SRV:	<input type="text" value="no"/>	DNS SRV Auto Prefix:	<input type="text" value="no"/>
Proxy Fallback Intvl:	<input type="text" value="3600"/>		
Subscriber Information			
Display Name:	<input type="text"/>	User ID:	<input type="text"/>
Password:	<input type="text"/>	Use Auth ID:	<input type="text" value="no"/>
Auth ID:	<input type="text"/>		
Mini Certificate:	<input type="text"/>		
SRTP Private Key:	<input type="text"/>		

Step 7:

Scroll down and under **FXO Timer Values (sec)**, enter "0" in the **PSTN Ring Thru CWT Delay** and **PSTN Answer Delay** fields.

Enter "0" on the **PSTN Answer Delay** field.

FXO Timer Values (sec)			
VoIP Answer Delay:	<input type="text" value="0"/>	VoIP PIN Digit Timeout:	<input type="text" value="10"/>
PSTN Answer Delay:	<input type="text" value="0"/>	PSTN PIN Digit Timeout:	<input type="text" value="10"/>
PSTN-To-VoIP Call Max Dur:	<input type="text" value="0"/>	PSTN Ring Thru Delay:	<input type="text" value="1"/>
VoIP-To-PSTN Call Max Dur:	<input type="text" value="0"/>	PSTN Ring Thru CWT Delay:	<input type="text" value="0"/>
VoIP DLG Refresh Intvl:	<input type="text" value="0"/>	PSTN Ring Timeout:	<input type="text" value="5"/>
PSTN Dialing Delay:	<input type="text" value="1"/>	PSTN Dial Digit Len:	<input type="text" value=".1/.1"/>

Step 8:

Under **PSTN-To-VoIP Gateway Setup**, look for **PSTN Ring Thru Line 1** and select **No** from the drop down menu. Enter "2" in the **PSTN Caller Default DP** field.

PSTN-To-VoIP Gateway Setup	
PSTN-To-VoIP Gateway Enable:	yes
PSTN Ring Thru Line 1:	no
PSTN CID For VoIP CID:	no
PSTN Caller Default DP:	2
PSTN Caller ID Pattern:	
PSTN Access List:	
PSTN Caller 1 PIN:	
PSTN Caller 2 PIN:	
PSTN Caller 3 PIN:	
PSTN Caller 4 PIN:	
PSTN Caller 5 PIN:	
PSTN Caller 6 PIN:	
PSTN Caller 7 PIN:	
PSTN Caller 8 PIN:	
Caller Auth Method:	none
Max Retry:	3
D Number Prefix:	
PSTN CID Name Prefix:	
PSTN Caller 1 DP:	1
PSTN Caller 2 DP:	1
PSTN Caller 3 DP:	1
PSTN Caller 4 DP:	1
PSTN Caller 5 DP:	1
PSTN Caller 6 DP:	1
PSTN Caller 7 DP:	1
PSTN Caller 8 DP:	1

Step 9:

Scroll up, look for **Dial Plans**, and enter "(S0<:103>)" in the **Dial Plan 2** field. Click **Submit All Changes** in order to save your settings.

Dial Plans	
Dial Plan 1:	(xx.)
Dial Plan 2:	(S0<:103>)
Dial Plan 3:	(xx.)
Dial Plan 4:	(xx.)
Dial Plan 5:	(xx.)
Dial Plan 6:	(xx.)
Dial Plan 7:	(xx.)
Dial Plan 8:	(xx.)

Step 10:

Click .

Related Information

- [Technical Support & Documentation – Cisco Systems](#)