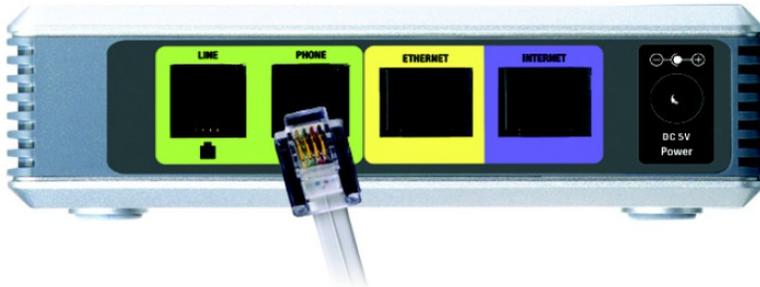


Cluana

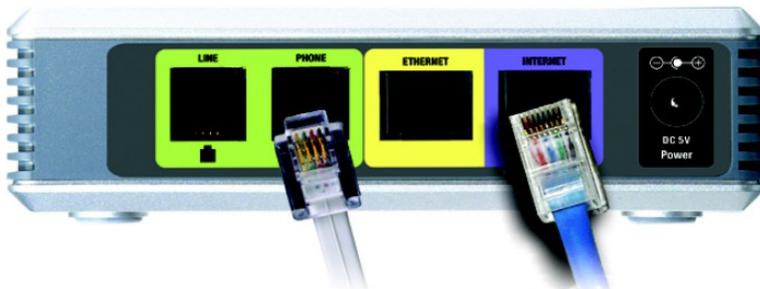
Linksys Cisco FXO adapter SPA 3102 Configuration guide

Cable connection

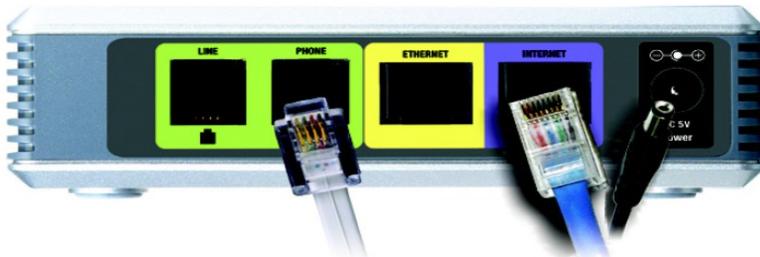
Step 1: connect your phone cable to the "PHONE" port. **Leave the "LINE" port disconnected.**



Step 2: connect your LAN cable to the "INTERNET" port. We assume a DHCP server is already running on your LAN. If not, after step 3 jump to "Static IP configuration"



Step 3: power up the adapter



IP address detection and web management

On your phone

- press **** (star key 4 time)
- press 110# and take note of the announced IP address. Let's call it "ip_address"
- press 7932# 1# 1 (it's needed to enable web management on the internet port)
- open a web browser to the URL: http://ip_address/admin/advanced

PSTN Caller Default DP: 2

FXO Timer Values (sec)

PSTN Answer Delay: 2

PSTN Disconnect Detection

Disconnect Tone:

US: 480@-30,620@-30;4(.25/.25/1+2)

UK: 400@-30,400@-30; 2(3/0/1+2)

France: 440@-30,440@-30; 2(0.5/0.5/1+2)

Germany: 440@-30,440@-30; 2(0.5/0.5/1+2)

Netherlands: 425@-30,425@-30; 2(0.5/0.5/1+2)

Sweden: 425@-10; 10(0.25/0.25/1)

Norway: 425@-10; 10(0.5/0.5/1)

Italy: 425@-30,425@-30; 2(0.2/0.2/1+2)

Spain: 425@-10; 10(0.2/0.2/1,0.2/0.2/1,0.2/0.6/1)

Portugal: 425@-10; 10(0.5/0.5/1)

Poland: 425@-10; 10(0.5/0.5/1)

Denmark: 425@-10; 10(0.25/0.25/1)

New Zealand: 400@-15; 10(0.25/0.25/1)

Australia: 425@-13; 10(0.375/0.375/1)

International Control

FXO Port Impedance:

US: 600

EU (UK, Germany, Netherlands, Sweden, Norway, Italy,
Spain, Portugal, Poland, and Denmark): 270+750||150nF

France: 270+750||150nF

Australia: 220+820||120nF

New Zealand: 370+620||310nF

Press "Submit all changes"

Now you can connect your phone line cable to the "LINE" port.

Line Enable: yes no

CUT

Proxy and Registration

Proxy:	mycompany.com:5061		
Outbound Proxy:	myserver.cuana.com:5061		
Use Outbound Proxy:	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	Use OB Proxy In Dialog:	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Register:	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	Make Call Without Reg:	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes
Register Expires:	120	Ans Call Without Reg:	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes
Use DNS SRV:	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	DNS SRV Auto Prefix:	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes
Proxy Fallback Intvl:	3600	Proxy Redundancy Method:	Normal <input type="checkbox"/>

Subscriber Information

Display Name:	FXO_1	User ID:	fxo_1
Password:	*****	Use Auth ID:	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Auth ID:	fxo_1		
Mini Certificate:			
SRTP Private Key:			

Audio Configuration

Preferred Codec:	G711a <input type="checkbox"/>	Silence Supp Enable:	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes
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CUT

Dial Plans

Dial Plan 1:	(xx.)
Dial Plan 2:	(S0<:0733784374>)
Dial Plan 3:	(xx.)
Dial Plan 4:	(yy.)

CUT

PSTN-To-VoIP Gateway Setup

PSTN-To-VoIP Gateway Enable:	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	PSTN Caller Auth Method:	<input type="checkbox"/> none <input checked="" type="checkbox"/> other
PSTN Ring Thru Line 1:	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	PSTN PIN Max Retry:	3
PSTN CID For VoIP CID:	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	PSTN CID Number Prefix:	
PSTN Caller Default DP:	2 <input type="checkbox"/>	Off Hook While Calling VoIP:	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes
Line 1 Signal Hook Flash To PSTN:	Disabled <input type="checkbox"/>	PSTN CID Name Prefix:	

CUT

FXO Timer Values (sec)

VoIP Answer Delay:	0	VoIP PIN Digit Timeout:	10
PSTN Answer Delay:	2	PSTN PIN Digit Timeout:	10
PSTN-To-VoIP Call Max Dur:	0	PSTN Ring Thru Delay:	1
VoIP-To-PSTN Call Max Dur:	0	PSTN Ring Thru CWT Delay:	3
VoIP DLG Refresh Intvl:	0	PSTN Ring Timeout:	5
PSTN Dialing Delay:	1	PSTN Dial Digit Len:	.1/.1
PSTN Hook Flash Len:	.25		

PSTN Disconnect Detection

Detect CPC:	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	Detect Polarity Reversal:	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Detect PSTN Long Silence:	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	Detect VoIP Long Silence:	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes
PSTN Long Silence Duration:	30	VoIP Long Silence Duration:	30
PSTN Silence Threshold:	medium <input type="checkbox"/>	Min CPC Duration:	0.2
Detect Disconnect Tone:	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no		
Disconnect Tone:	425@-30,425@-30; 2(0.2/0.2/1+2)		

International Control

FXO Port Impedance:	270+750 150nF <input type="checkbox"/>	Ring Frequency Min:	10
Dtmf Playback Level:	-7.3	Dtmf Playback Twist:	1.3
SPA To PSTN Gain:	0	Ring Frequency Max:	90
PSTN To SPA Gain:	0	Ring Validation Time:	256 ms <input type="checkbox"/>
Tip/Ring Voltage Adjust:	3.5 V <input type="checkbox"/>	Ring Indication Delay:	512 ms <input type="checkbox"/>
Operational Loop Current Min:	10 mA <input type="checkbox"/>	Ring Timeout:	640 ms <input type="checkbox"/>
On-Hook Speed:	Less than 0.5 ms <input type="checkbox"/>	Ring Threshold:	13.5-16.5 Vrms <input type="checkbox"/>
Current Limiting Enable:	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	Ringer Impedance:	High (Normal) <input type="checkbox"/>
Line-In-Use Voltage:	30		

Undo All Changes

Submit All Changes

Firmware Upgrade

Configuration parameters above were tested with firmware release 5.2.13 . If your adapter is using an older release (check Voice menu, Info->Product Information->Software Version) maybe a software upgrade is needed.

- Download the latest firmware from the adapter manufacturer support site
- Extract the Zip file, and then run the executable file to upgrade the firmware.
- When the Firmware Upgrade Warning window appears, click Continue.
- In the next window that appears, enter the IP address of the ATA device, and then click OK.
- In the Confirm Upgrade window, verify that the correct device information and product number appear. Then click Upgrade.
- A progress message appears while the upgrade is in progress.
- The success window appears when the upgrade is completed. The device reboots. Click OK to close the confirmation message.
- To verify the upgrade, point the web browser to the IP address of the ATA device

Static IP configuration

We recommend to use a DHCP server on your Local Area Network in order to allow your adapter to automatically configure its network parameters. Should you need to assign a static IP address, please follow the Quick Install guide provided with your adapter. Remember that you need to find a free IP address compatible with your network and assign via IVR commands such IP address and its netmask (eg. 192.168.1.100 and 255.255.255.0) . Such parameters should be enough to access the device via web browser and allow you to configure any other value.

Factory Reset

You can restore factory default settings with the following steps:

on your phone

- press **** (star key 4 time)
- press 73738#
- press 1
- hangup