

## Cisco SPA122 Configuration Guide for FreePhoneLine Software Version: 1.3.3(015)

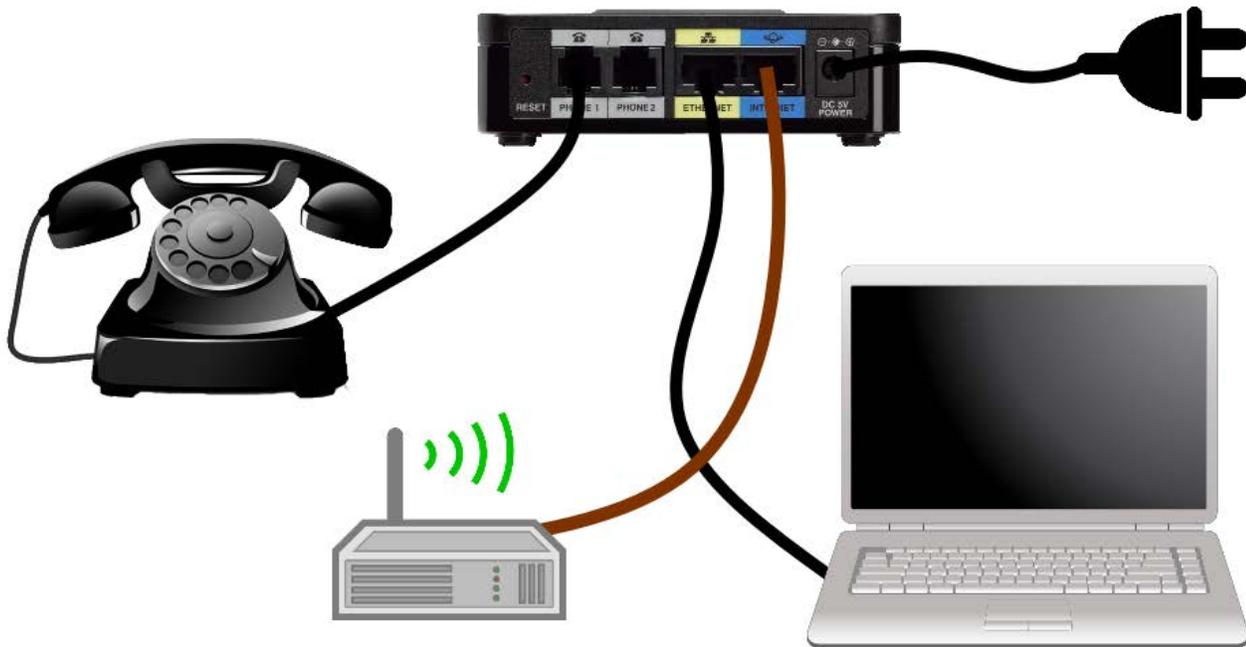
Official FPL guidelines you can find at: <http://support.freephoneline.ca/entries/23120323-VoIP-Unlock-Key-Credentials>

**All the settings were default on the device before configuration.**

### Step 1.

Plug all the appropriate wires to your Linksys SPA122 device.

- Ethernet cable [*Note: Connect to Ethernet Port on your SPA122 device and another end to your PC/laptop*]
- Phone line (attached to the phone) [*Note: Use 'Phone 1' port*]
- Power



### Step 2.

On the PC/Mac go to your browser (Internet Explorer; Chrome; Firefox; Opera; Safari, etc.).

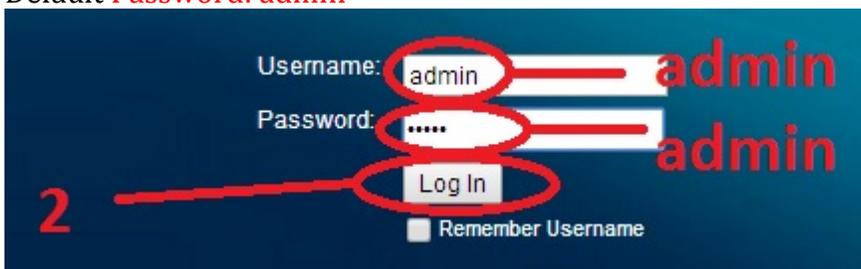
In the URL bar put IP address: **192.168.15.1**



Login page will appear.

Default **Username: admin**

Default **Password: admin**



**Step 3.**

Go to the 'Network Setup' tab, then on your left side menu click on 'Time Settings' and change the following settings:

Under 'Time Zone' Category choose the appropriate time zone where SPA122 is located.

Then click 'Submit' button to save changes.

Wait until changes are saved.

The screenshot shows the 'Time Settings' configuration page. The 'Network Setup' tab is selected in the top navigation bar. In the left sidebar, 'Time Settings' is highlighted under the 'Basic Setup' category. The main content area shows the 'Time Settings' configuration. The 'Time Zone' section is selected, and the dropdown menu is open, showing a list of time zones. The current selection is '(GMT-05:00) Eastern Time (USA & Canada)'. The 'Submit' button is circled in red. A red box highlights the time zone list, and a red arrow points to the selected option. The date is set to 2014/7/16 and the time to 13:16:27. The 'Adjust Clock for Daylight Saving Changes' checkbox is checked. The 'Time Server' is set to 'Manual' with the URL '0.ciscosb.pool.ntp.org'. The 'Resync Timer' is set to 3600 seconds. The 'Auto Recovery After Reboot' checkbox is unchecked.

Annotations in the image:

- 1: Points to the 'Network Setup' tab in the top navigation bar.
- 2: Points to the selected time zone '(GMT-05:00) Eastern Time (USA & Canada)' in the dropdown menu.
- 3: Points to the 'Submit' button at the bottom of the page.

Time Zone List (from top to bottom):

- (GMT-11:00) Midway Island, Samoa
- (GMT-10:00) Hawaii
- (GMT-09:00) Alaska
- (GMT-08:00) Pacific Time (USA & Canada)
- (GMT-07:00) Arizona
- (GMT-07:00) Mountain Time (USA & Canada)
- (GMT-06:00) Mexico
- (GMT-06:00) Central Time (USA & Canada)
- (GMT-05:00) Indiana East, Colombia, Panama
- (GMT-05:00) Eastern Time (USA & Canada)
- (GMT-04:00) Bolivia, Venezuela
- (GMT-04:00) Atlantic Time (Canada), Brazil West
- (GMT-04:00) Guyana
- (GMT-03:30) Newfoundland
- (GMT-03:00) Brazil East, Greenland
- (GMT-02:00) Mid-Atlantic
- (GMT-01:00) Azores
- (GMT) Gambia, Liberia, Morocco
- (GMT) England
- (GMT+01:00) Tunisia

**Step 4.**

Go to the 'Voice' tab, then on your left side menu go to 'SIP' tile and change the following settings:

Under 'RTP Parameters' category

**RTP Packet Size: 0.020**

Under 'NAT Support Parameters' category

**NAT Keep Alive Intvl: 20**

Then click 'Submit' button to save changes.

Wait until changes are saved.

Quick Setup Network Setup **Voice** Administration Status

Information System SIP Provisioning Regional Line 1 User 1 Line 2 User 2

### SIP

**RTP Parameters**

RTP Port Min: 16384 RTP Port Max: 16482

RTP Packet Size: 0.020 RTP Tx Packet Size Follows Remote SDP: yes

Max RTP ICMP Err: 0 RTCP Tx Interval: 0

No UDP Checksum: no Stats In BYE: yes

**SDP Payload Types**

NSE Dynamic Payload: 100 AVT Dynamic Payload: 101

INFOREQ Dynamic Payload: G726r32 Dynamic Payload: 2

G729b Dynamic Payload: 99 EncapRTP Dynamic Payload: 112

RTP-Start-Loopback Dynamic Payload: 113 RTP-Start-Loopback Codec: G711u

NSE Codec Name: AVT Codec Name: telephone-event

G711u Codec Name: PCMU G711a Codec Name: PCMA

G726r32 Codec Name: G726-32 G729a Codec Name: G729a

G729b Codec Name: G729ab EncapRTP Codec Name: encaprtsp

**NAT Support Parameters**

Handle VIA received: no Handle VIA rport: no

Insert VIA received: no Insert VIA rport: no

Substitute VIA Addr: no Send Resp To Src Port: no

STUN Enable: no STUN Test Enable: no

STUN Server: EXT IP:

EXT RTP Port Min: NAT Keep Alive Intvl: 20

Submit Cancel Refresh

### Step 5.

Go to 'Voice' tab, then go 'Regional' line and change the following settings:

Under 'Ring and Call Waiting Tone Spec' category:

**Ring Waveform:** *Sinusoid*

**Ring Frequency:** 52

**Ring Voltage:** 90

Then click 'Submit' button to save changes.

Wait until changes are saved.

Quick Setup Network Setup **Voice** Administration Status

Information System SIP Provisioning **Regional** Line 1 User 1 Line 2 User 2

### Regional

Ring7 Name: Bellcore-r7 Ring8 Name: Bellcore-r8

**Ring and Call Waiting Tone Spec**

Ring Waveform: Sinusoid Ring Frequency: 52

Ring Voltage: 90 CWT Frequency: 440@-10

Synchronized Ring: no

**Control Timer Values (sec)**

Hook Flash Timer Min: .1 Hook Flash Timer Max: .9

Callee On Hook Delay: 0 Reorder Delay: 5

Call Back Expires: 1800 Call Back Retry Intvl: 30

Call Back Delay: .5 VMWI Refresh Intvl: 0

Submit Cancel Refresh

**Step 6.**

Go to 'Voice' tab, then go 'Line 1' line and change the following settings:

Under 'NAT Settings' category:

**NAT Mapping Enable:** *yes*

**NAT Keep Alive Enable:** *yes*

The screenshot shows the 'Voice' configuration page for 'Line 1'. The 'NAT Settings' section is highlighted with a red circle and a red arrow labeled '2'. The 'NAT Mapping Enable' dropdown is set to 'yes' and the 'NAT Keep Alive Enable' dropdown is also set to 'yes'. A red arrow labeled '1' points to the 'Line 1' link in the left sidebar.

Under 'Proxy and Registration' category:

**Proxy:** *voip.freephoneline.ca* **OR** *voip2.freephoneline.ca* **[Note: For ROGERS Internet provider customers use *voip4.freephoneline.ca:6060*]**

**Register Expires:** *3600*

Under 'Subscriber Information' category:

**Display Name:** *[Your first and last name]*

**[Note: ATA and SIP clients with a Caller ID string containing non-alphanumeric characters will prevent you from making outgoing calls]**

**User ID:** *[Your FPL number 1xxxxxxxxx]*

**Password:** *[Your SIP password]*

The screenshot shows the 'Line 1' configuration page. The 'Proxy and Registration' section has 'Proxy' set to 'voip.freephoneline.ca' and 'Register Expires' set to '3600'. The 'Subscriber Information' section has 'Display Name' set to 'Firstname Lastname' and 'User ID' set to '1xxxxxxxxx'. Red circles and arrows labeled '3' highlight these specific settings.

Under 'Audio Configuration' category:

**Preferred Codec:** G711u

**Second Preferred Codec:** G729a

**Third Preferred Codec:** G711u

Under 'Dial Plan' category:

**Dial Plan:** (911|[2-9]xxxxxxxx|1xxxxxxxx|011xxxxxxxx|98\*|[6-7]x\*xxxxxxxx.)

Then click 'Submit' button to save changes.

Wait until changes are saved.

Line 1

Reuse CID Number As Name:  CONF CID Serv:

**Audio Configuration**

Preferred Codec:  Second Preferred Codec:

Third Preferred Codec:  Use Pref Codec Only:

Use Remote Pref Codec:  Codec Negotiation:

G729a Enable:  Silence Supp Enable:

G726-32 Enable:  Silence Threshold:

FAX V21 Detect Enable:  Echo Canc Enable:

FAX CNG Detect Enable:  FAX Passthru Codec:

FAX Codec Symmetric:  DTMF Process INFO:

FAX Passthru Method:  DTMF Process AVT:

FAX Process NSE:  DTMF Tx Method:

FAX Disable ECAN:  DTMF Tx Mode:

DTMF Tx Strict Hold Off Time:  FAX Enable T38:

Hook Flash Tx Method:  FAX T38 Redundancy:

FAX T38 ECM Enable:  FAX Tone Detect Mode:

Symmetric RTP:  FAX T38 Return to Voice:

Modem Line:  RTP to Proxy in Remote Hold:

**Dial Plan**

Dial Plan:

**Step 8.**

Go to 'Voice' tab, then click on 'Line 2':

**Line Enable:** no

Quick Setup Network Setup **Voice** Administration Status

Information System SIP Provisioning Regional Line 1 User 1 **Line 2** User 2

Line 2

**General**

Line Enable:

**Streaming Audio Server (SAS)**

SAS Enable:  SAS DLG Refresh Intvl:

SAS Inbound RTP Sink:

Then click 'Submit' button at the bottom.

Wait until changes are saved.

Enjoy your free phone line! 😊