



Linksys PAP2T ATA Configuration Guide

Linksys PAP2T Phone Adapter Configuration Guide

The Linksys Internet Phone Adapter enables high-quality feature-rich VoIP (voice over IP) service through your VSAT Internet connection. Just plug it into your Router or LAN and use the two standard telephone ports to connect analog phones or use one of the ports for a fax machine. Each phone port operates independently, with separate phone service and phone numbers, like having two telephone lines. You'll get clear reception and a reliable fax connection, even while using the Internet at the same time.

STEP 1

You must first determine what IP address the unit is currently configured with.

1. First you need to plug an analog phone into Line 1 jack and dial: ****** (four asterisks/star keys)** followed by **110 #**.
2. The unit will respond with the IP address of your device (e.g. 192.168.0.100).
3. Please take down this information and hang-up once completed.

If the IP is 0.0.0.0, your PAP2 does not have a valid IP address.

You will need to:

1. Hang up the phone, unplug and re-plug your PAP2 power cord.
2. Wait 2 minutes, and check the IP again.
3. If you still get 0.0.0.0, then proceed to assign a static IP address as illustrated below.

NOTE: You will need to provide iWayAfrica Support with the IP to be assigned to the device for bandwidth to be reserved for the VOIP device in the bandwidth manager.

Static IP configuration:

Before you can proceed with configuring your PAP2, you will require the following information:

- IP Address
- Default Gateway
- Subnet Mask

Follow the steps below to configure the IP:

1. Pick up the telephone receiver of the phone connected to the Linksys PAP 2 device and dial **"* * * *"**. **(four asterisks /star keys)**.
2. You will hear a voice prompt saying "Configuration menu".
3. **Press the keys 101#** on your analog phone to access the Static IP configuration menu.
4. **Press 0#** to disable DHCP, then press 1 to save the setting.
5. **Press 111#** to access the IP Address Menu.
6. Enter your IP Address followed by **#** (i.e. 123*45*67*89# to represent the IP 123.45.67.89).
7. Press 1 to save the setting.
8. **Press 131#** to access the Default Gateway Menu.
9. Enter your Default Gateway (i.e. 123*45*67*89#) to represent the Gateway.
10. **Press 1** to save the setting.
11. **Press 121#** to access the Subnet Mask Menu.
12. Enter your Subnet Mask (i.e. 123*45*67*89# to represent Subnet Mask 123.45.67.89).
13. **Press 1** to save the setting.

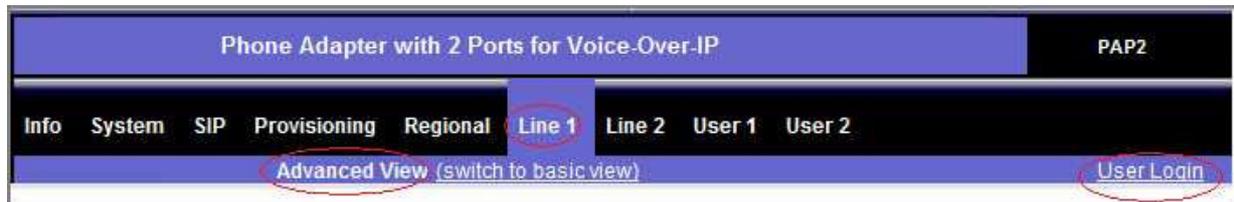
STEP 2

Go to any browser equipped computer on your network and enter the address provided: **http://<IP ADDRESS>**

NOTE: Where **<IP ADDRESS>** is, it's replaced by **the Static IP you configured on the PAP2.**

STEP 3

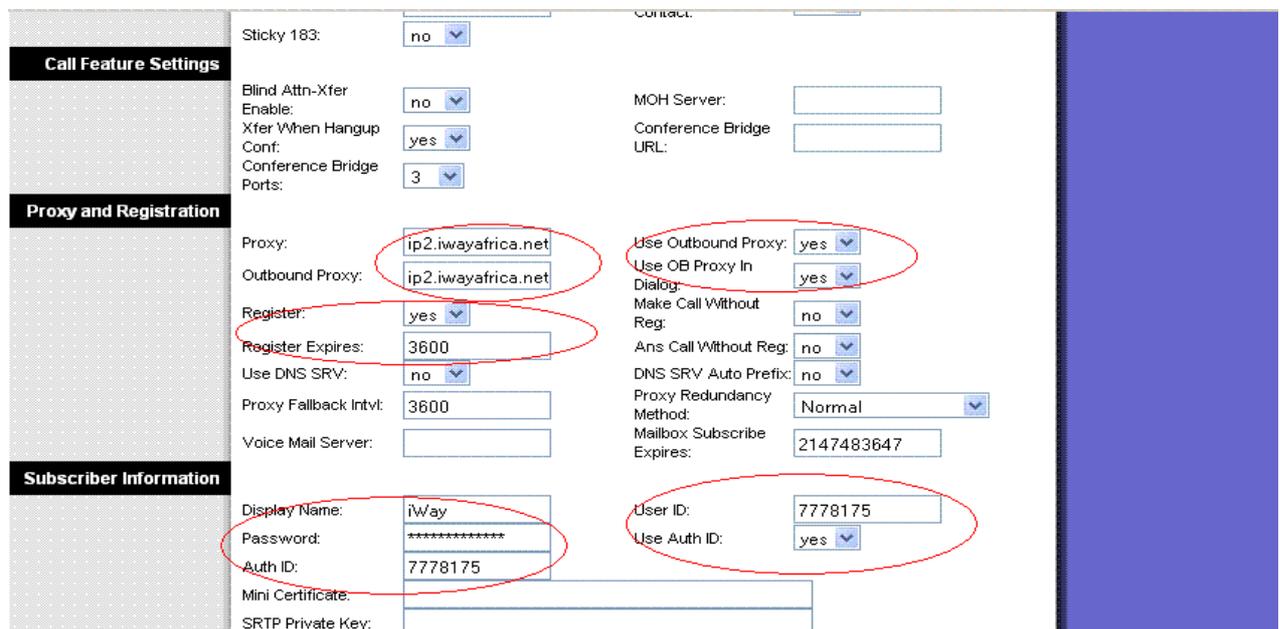
Click on the **"Admin Login"** button near the top right side of the screen, **then** click on the **"Advanced View"** followed by **"Line 1"** tab.



STEP 4

You need to modify only a few parameters from the factory default. They are listed below. This step must be repeated for line Line1 and Line2:

| | |
|---------------------|---|
| Proxy: | sip2.iwayafrica.net |
| Display Name | Enter your full name, this will show up as part of your callerid. |
| User ID & Auth ID | Enter the sip username you received when you signed up for the service. |
| Password: | Enter the sip password you received when you signed up for the service. |
| Additional Settings | Please ensure that your settings conform to what is displayed below. |



STEP 5

If you are only making outbound call, for improved performance, you can change Line 1 "Preferred Codec" to G723. However, if you've opted to make outbound calls **and to receive calls** by using iWayAfrica's DiD service, then this field **must** be set to G729a. Also please ensure that the "Use Pref Codec Only" is set to No.

The Linksys PAP2T does not support the same codec on both lines. So, if Line 1 is on G.723, then Line 2 must be a different codec e.g. G.729a.

| Audio Configuration | |
|-------------------------|--------|
| Preferred Codec: | G729a |
| Use Pref Codec Only: | no |
| G729a Enable: | yes |
| G723 Enable: | yes |
| G726-16 Enable: | yes |
| G726-24 Enable: | yes |
| G726-32 Enable: | yes |
| G726-40 Enable: | yes |
| DTMF Process INFO: | yes |
| DTMF Process AVT: | no |
| DTMF Tx Method: | Auto |
| Hook Flash Tx Method: | None |
| Release Unused Codec: | yes |
| Silence Supp Enable: | yes |
| Silence Threshold: | medium |
| Echo Canc Enable: | yes |
| Echo Canc Adapt Enable: | yes |
| Echo Supp Enable: | yes |
| FAX CED Detect Enable: | yes |
| FAX CNG Detect Enable: | yes |
| FAX Passthru Codec: | G711u |
| FAX Codec Symmetric: | yes |
| FAX Passthru Method: | NSE |
| FAX Process NSE: | yes |
| FAX Disable ECAN: | no |

STEP 6

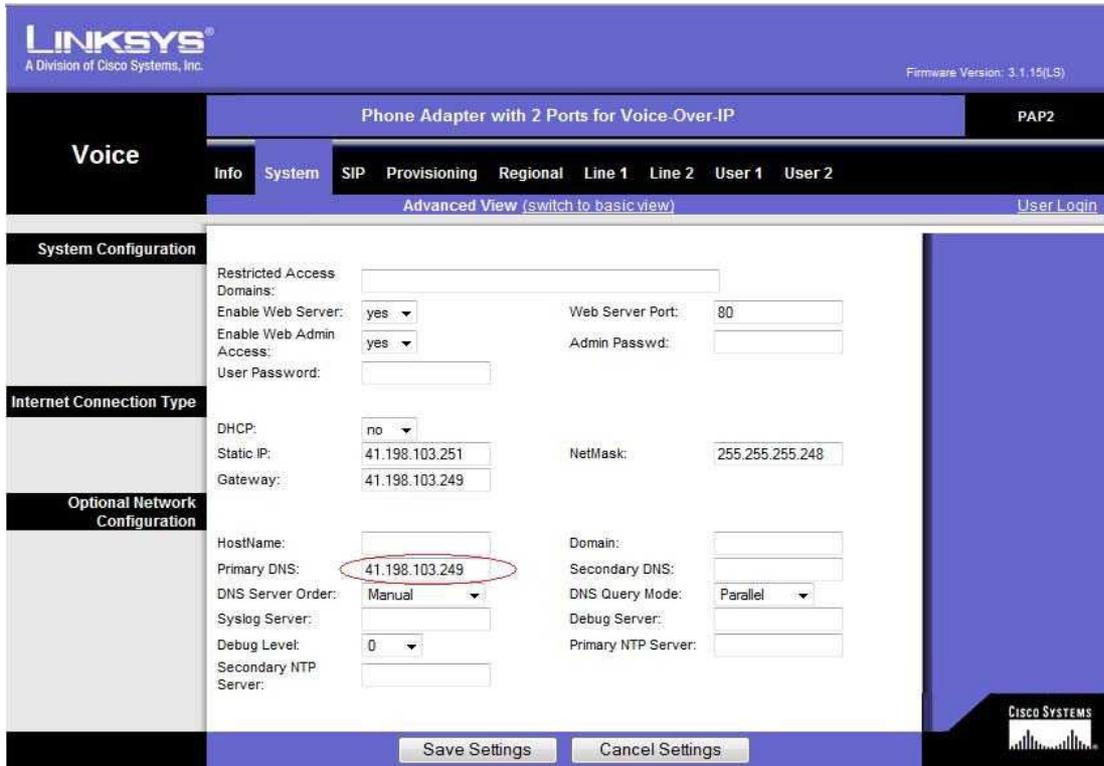
Click on the "Save Settings" button at the bottom of the form.



Save Settings Cancel Settings

STEP 7

You will also be required to specify the IP address of your DNS server. (Please see the table below for the DNS server settings for various iWayAfrica NOCs). To change your DNS server details, click on the "System" menu near the top left side of the screen then enter the Primary and Secondary DNS server details as illustrated below.



LINKSYS
A Division of Cisco Systems, Inc. Firmware Version: 3.1.15(L9)

Voice Phone Adapter with 2 Ports for Voice-Over-IP **PAP2**

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

Advanced View (switch to basic view) [User Login](#)

System Configuration

Restricted Access Domains:

Enable Web Server: yes Web Server Port: 80

Enable Web Admin Access: yes Admin Passwd:

User Password:

Internet Connection Type

DHCP: no

Static IP: 41.198.103.251 NetMask: 255.255.255.248

Gateway: 41.198.103.249

Optional Network Configuration

HostName: Domain:

Primary DNS: 41.198.103.249 Secondary DNS:

DNS Server Order: Manual DNS Query Mode: Parallel

Syslog Server: Debug Server:

Debug Level: 0 Primary NTP Server:

Secondary NTP Server:

CISCO SYSTEMS

DNS server settings for various iWayAfrica NOCs:

| NOC Name | DNS Server Settings | |
|-----------|---------------------|---------------|
| G11 | Primary | 80.72.111.4 |
| | Secondary | 80.72.111.3 |
| NSS7/NSS5 | Primary | 77.220.15.4 |
| | Secondary | 77.220.15.3 |
| S2 | Primary | 62.128.175.15 |
| | Secondary | 62.128.175.14 |

STEP 8

Click on the "Save Settings" button at the bottom of the form.



STEP 9

Make calls!

Troubleshooting

If you are unable to make or receive calls, please check that the 'registration state' on the info page says 'Online' for Line1 and Line2 (see example below).

1. If the 'Registration State' displays any status, other than 'Online', then please re- check all settings as provided in this document.
2. Please confirm that sufficient VoIP credits have been loaded on the respective VoIP account.

A Division of Cisco Systems, Inc.
Firmware Version: 3.1.15(LS)

Phone Adapter with 2 Ports for Voice Over-IP PAP2

Voice Info System User 1 User 2

Basic View (switch to advanced view) [Admin Login](#)

External IP:

| Line 1 Status | | User ID: 7750717 | |
|-----------------------|-------------------|-----------------------|--------|
| Display Name: | test1 | Registration State: | Online |
| Hook State: | On | Next Registration In: | 4 s |
| Last Registration At: | 1/1/2003 12:16:37 | Call Back Active: | No |
| Message Waiting: | No | Last Caller Number: | |
| Last Called Number: | | Call 2 State: | Idle |
| Mapped SIP Port: | | Call 2 Tone: | None |
| Call 1 State: | Idle | Call 2 Encoder: | |
| Call 1 Tone: | None | Call 2 Decoder: | |
| Call 1 Encoder: | | Call 2 FAX: | |
| Call 1 Decoder: | | Call 2 Type: | |
| Call 1 FAX: | | Call 2 Remote Hold: | |
| Call 1 Type: | | Call 2 Callback: | |
| Call 1 Remote Hold: | | Call 2 Peer Name: | |
| Call 1 Callback: | | Call 2 Peer Phone: | |
| Call 1 Peer Name: | | Call 2 Duration: | |
| Call 1 Peer Phone: | | Call 2 Packets Sent: | |
| Call 1 Duration: | | Call 2 Packets Recv: | |
| Call 1 Packets Sent: | | Call 2 Bytes Sent: | |
| Call 1 Packets Recv: | | Call 2 Bytes Recv: | |
| Call 1 Bytes Sent: | | Call 2 Decode: | |
| Call 1 Bytes Recv: | | Latency: | |
| Call 1 Decode: | | Call 1 Jitter: | |
| Latency: | | Call 2 Jitter: | |
| Call 1 Jitter: | | Call 2 Round Trip: | |
| Call 1 Round Trip: | | Delay: | |
| Delay: | | Call 2 Packets Lost: | |
| Call 1 Packets Lost: | | Call 2 Packet Error: | |
| Call 1 Packet Error: | | | |