

**This file provides instructions for setting up the Linksys PAP2 :**

Before you begin to configure your device:

A. Set your device to **factory default**:

1. Pick up the phone attached to your Linksys.
2. Dial \*\*\*\*73738#
3. Press 1 to confirm.
4. Hang up the phone.

**STEP 1**

Connect the Linksys PAP2 to your broadband connection. Use the following pictures of the back of the PAP2 to aid you.

A. Plug your analog telephone cord into the port labeled "Phone 1."



B. Plug your Ethernet cable into the "Ethernet Port" of your PAP2 to connect it to your router or Internet connection.



C. Connect your power cord into the PAP2.



## **STEP 2**

Verify & Configure your IP address

If your network utilizes a DHCP Server to assign IP addresses to network devices, or if you are connecting the PAP2 to a home router such as Linksys or Netgear, please do the following:

**A. First you must verify that your PAP2 will acquire an IP address automatically.**

1. Pick up phone connected to the “Phone 1” port of the PAP2, dial \*\*\*\* . You will hear “Linksys configuration menu.”
2. Press the keys **110#** on your analog phone.
3. Press **1#** to enable DHCP.
4. Press **1** to save your configuration settings. Hang up the phone and wait for a couple of minutes.

**B. Next, you need to verify that your PAP2 has a valid IP address. Be prepared with pen and paper, and proceed with the following:**

1. Pick up phone connected to “Phone 1” port of the PAP2, dial \*\*\*\* . You will hear “Linksys configuration menu.”
2. Press the keys **110#** on your analog phone. The system will then read back the IP address of your PAP2. Please write this down. If you are given a valid IP, then proceed to STEP 4 on page 3.

**C. If the IP is 0.0.0.0, your PAP2 does not have a valid IP address, and you must complete the following instructions. If your PAP2 has a valid IP, ignore the following and proceed to STEP 4 on page 3.**

1. Hang up the phone, and unplug and replug your PAP2 power cord.
2. Wait 2 minutes, then check the IP again (see STEP 2).
3. If the automated voice again says your address is 0.0.0.0, there are three possible reasons:
  - a. Your DHCP Server is not assigning an IP address to the PAP2. In this case, contact your network administrator or ISP for assistance.
  - b. Your network does not have a DHCP server. In this case, you must configure your IP manually (See Page 4).
  - c. You have purchased a Static IP. In this case, configure your IP manually (See Page 4).

## **STEP 3**

Manually configure your static IP.

Please note that this step is only necessary for those who have a static IP address or do not have a DHCP server (refer to STEP2.C.3). **Move on to STEP 4, if your PAP2 already has a valid IP address.**

- A.** Obtain your IP Address, Default Gateway and Subnet Mask. If you are using a router, contact the manufacturer for the retrieval of this information. If you are not using a router, obtain this information directly from your ISP.
- B.** Pick up the telephone receiver of the phone connected to the adaptor.
- C.** Dial \*\*\*\*. You will hear a voice prompt saying "Linksys configuration menu."
- D.** Press the **101#** on your analog phone to access the static IP configuration menu.
- E.** Press **0 #** to disable DHCP. Press **1** to save the setting.
- F.** Press **11#** to access the IP address Menu.
- G.** Enter your IP address followed by #. Use \* to indicate a period (.).
- For example, the IP address 123.45.67.89 would be entered as 123\*45\*67\*89#.**  
Press **1** to save the setting.
- H.** Press **131#** to access the default gateway menu.
- I.** Enter your default gateway followed by #. Use \* to indicate a period (.). Press **1** to save the setting.
- J.** Press **121#** to access the subnet mask menu.
- K.** Enter your subnet mask followed by #. Use \* to indicate a period (.). Press **1** to save the setting.

You have now completed the static IP configuration.

To verify that the configuration is correct, please pick up the telephone receiver on the phone connected to the Linksys PAP2 and dial \*\*\*\* to enter the configuration menu. Dial **110#** to hear the IP address of the adaptor. If the IP read aloud is not the same as the one that you have just configured, please repeat the above steps to ensure that you have entered the correct settings.

#### **STEP 4**

Prepare your device to work with our network

**A.** Open your configuration page. To do so, type the following into your web browser:

**http://aaa.bbb.ccc.ddd/admin/advanced** where “aaa.bbb.ccc.ddd” represents the IP address of your PAP2.

**B.** On the configuration page click on “Admin Login” and then “switch to advanced view”

**C.** Click on the “Line 1” tab link. You will see a configuration as pictured in the screen shot below. Fill in the highlighted fields

**according to the configuration options given below, Please do not disturb the non mentioned default values given on the configuration screen.**

# Voice

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

Advanced View [\(switch to basic view\)](#)

## Streaming Audio Server (SAS)

Line Enable:

SAS Enable:

SAS DLG Refresh Intvl:

SAS Inbound RTP Sink:

## NAT Settings

NAT Mapping Enable:

NAT Keep Alive Enable:

NAT Keep Alive Msg:

NAT Keep Alive Dest:

## Network Settings

SIP TOS/DiffServ Value:

Network Jitter Level:

RTP TOS/DiffServ Value:

## SIP Settings

SIP Port:

SIP 100REL Enable:

EXT SIP Port:

Auth Resync-Reboot:

SIP Debug Option:

RTP Log Intvl:

Restrict Source IP:

## Call Feature Settings

Blind Attn-Xfer Enable:

MCH Server:

Xfer When Hangup Conf:

## Proxy and Registration

Proxy:

Use Outbound Proxy:

Outbound Proxy:

Use OB Proxy in Dialog:

Register:

Make Call Without Reg:

Register Expires:

Ans Call Without Reg:

Use DNS SRV:

DNS SRV Auto Prefix:

Proxy Fallback Intvl:

Voice Mail Server:

## Subscriber Information

Display Name:

User ID:

Password:

Use Auth ID:

Auth ID:

Mini Certificate:

SRTP Private Key:

**Supplementary Service Subscription**

Call Waiting Serv:	no	Block CID Serv:	no
Block ANC Serv:	no	Dist Ring Serv:	no
Cfwd All Serv:	no	Cfwd Busy Serv:	no
Cfwd No Ans Serv:	no	Cfwd Sel Serv:	no
Cfwd Last Serv:	no	Block Last Serv:	no
Accept Last Serv:	no	DND Serv:	no
CID Serv:	no	CWID Serv:	yes
Call Return Serv:	no	Call Back Serv:	no
Three Way Call Serv:	no	Three Way Conf Serv:	no
Attn Transfer Serv:	no	Unattn Transfer Serv:	no
MVM Serv:	no	VMM Serv:	no
Speed Dial Serv:	no	Secure Call Serv:	no
Referral Serv:	no	Feature Dial Serv:	no

**Audio Configuration**

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

**Dial Plan**

Dial Plan:	
Enable IP Dialing:	no

**FXS Port Polarity Configuration**

Idle Polarity:	Forward	Caller Conn Polarity:	Forward
Callee Conn Polarity:	Forward		

#### OPTION 1: Outbound Dialtone (No IVR) Configuration

SIP Port:	5060
Proxy:	aloha
Outbound Proxy:	sip.xol.jo
Register:	yes
Make Calls without Reg:	no
Use Outbound Proxy:	yes
Use Outbound Proxy in Dialog:	yes
Display Name:	Type Your Name
User ID:	Type your phone line
Password:	Type your password
Use Auth ID:	yes
Auth ID:	Type your PIN
Preferred Codec:	G729a (or G723 if you want to use two ports simultaneously)
Dial Plan:	Leave the factory default value. <b>Do not touch this field.</b>

#### STEP 5:

At this point your PAP2 should be registered (connected) to our servers. You can verify that your PAP2 is successfully setup in ANY of the following ways:

- Click the "Info" tab in the top menu. Under the "Line 1 Status" section on the Info page you should see "Online" next to the "Registration State" field.
- The light next to the Line 1 on the front of your PAP should be on.
- You should have dial tone on Line 1 when you pick up the phone.

If you do not see your PAP2 as registered, you should re-verify all steps in the setup process above. Make sure you have entered all settings correctly