



DEVICE CONFIGURATION GUIDE

Using the CallSpeak Service with the Linksys PAP2 Phone Adapter

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CallSpeak Device Configuration Guide

*Using the CallSpeak Service with the
Linksys PAP2 Phone Adapter*

August 2005

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1 Introduction

This document is an installation/configuration guide for the Linksys PAP2 phone adapter running firmware version 2.0.10 (LSc) or above. It describes how to configure the SIP parameters, codec settings and analog coefficients for outbound calling. It also includes steps for provisioning the device with the user account and PIN. Once you complete these steps, you will be ready to begin placing calls.

2 Adapter Description

The sections below briefly describe the PAP2 device.

2.1 Accessing the PAP2

1. Connect an analog phone to the RJ-45 connector on the PAP2.
2. Using the telephone keypad, press the star key (*) four (4) times: ********.
You will be prompted to enter a code.
3. Enter the appropriate code, followed by the pound (#) key. Refer to the **PAP2 Menu Options** table on the following page for codes.

PAP2 MENU OPTIONS			
Action	Code	User Input	Behavior Notes
Enter IVR Menu	****	None	Do not press any other keys until you hear, "Configuration menu. Please enter option followed by the pound (#) key, or hang up to exit."
Check DHCP	100	None	The system announces if DHCP is enabled or disabled.
Set DHCP	101	Enter 1 to enable. Enter 0 to disable.	Enter the option, followed by the pound (#) key.
Check IP address	110	None	
Set IP Address	111	Enter value using the numbers on the telephone keypad. Use the star (*) key when entering a decimal point.	Enter the value, followed by the pound (#) key. DHCP must be "Disabled," otherwise you will hear the announcement, "Invalid Option" if you try to set this value.
Check Net Mask	120	None	
Set Net Mask	121	Enter value using the numbers on the telephone keypad. Use the star (*) key when entering a decimal point.	Enter the value, followed by the pound (#) key. DHCP must be "Disabled," otherwise you will hear the announcement, "Invalid Option" if you try to set this value.
Check Gateway	130	None	
Set Gateway	131	Enter the value using the numbers on the telephone keypad. Use the star (*) key when entering a decimal point.	Enter the value, followed by the pound (#) key. DHCP must be "Disabled," otherwise you will hear the announcement, "Invalid Option" if you try to set this value.

PAP2 MENU OPTIONS			
Action	Code	User Input	Behavior Notes
Check MAC Address	140	None	You will hear the phone adapter's MAC address.
Check Firmware Version	150	None	You will hear the phone adapter's firmware version.
Manual Reboot	7326668	None	After you hear, "Option successful," hang up the phone. The phone adapter will automatically reboot.

PAP2 Menu Options

3. Provisioning

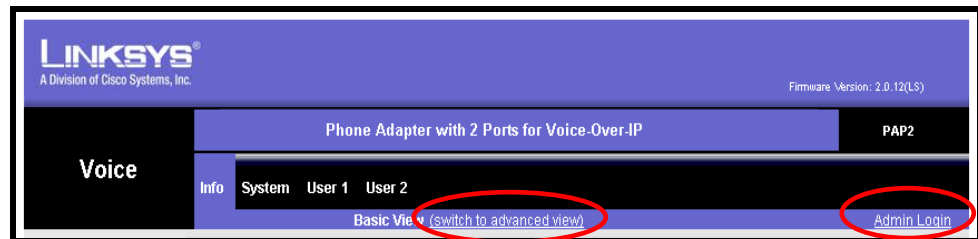
NOTE

The screens below are from version 2.0.12. Other versions may differ slightly in appearance.

3.1 General Configuration for Outbound Calling

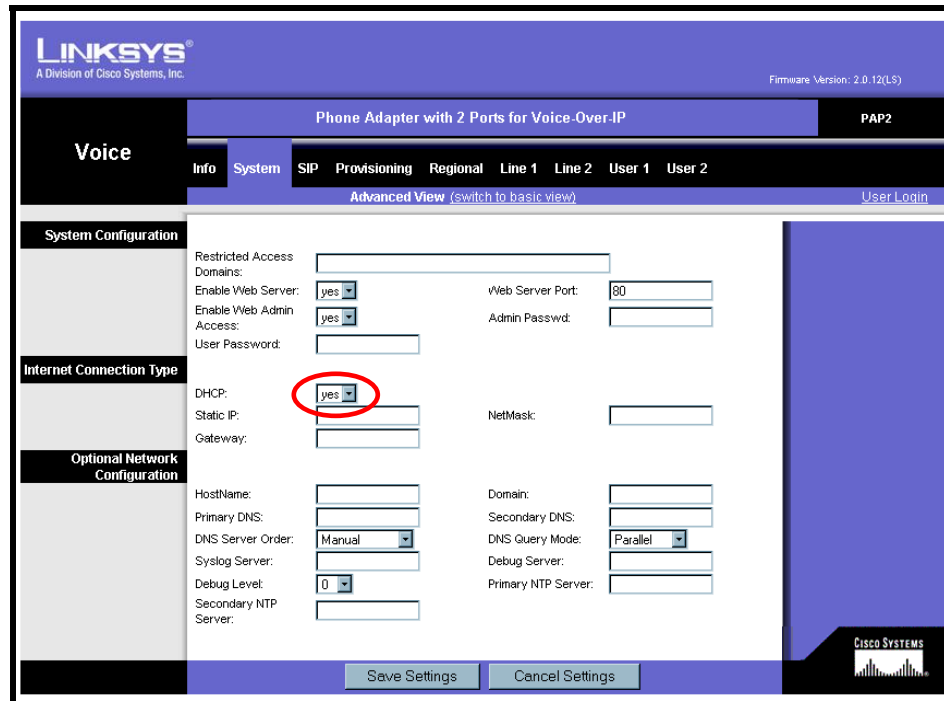
To configure the PAP2 for outbound calling:

1. Connect to the PAP2 by entering the device's IP address in the Web browser's **Address** bar. For instructions on obtaining the IP address, refer to section 2.3 **Accessing the PAP2** on page 2 in this Guide.
2. Click on the **Admin Login** link in the upper right corner of the page, and then click the **switch to advanced view** link.



PAP2 Web Interface – Main Window

3. Click the **System** tab, and in the *Internet Connection Type* section, click the **DHCP** drop-down menu, and select **yes** or **no**.



System Tab

4. If you set DHCP to **no**, enter the **Static IP**, **NetMask**, and **Gateway** information.
 If you set DHCP to **yes**, continue to step 5.
5. Click the **Save Settings** button at the bottom of the page to save the settings.

3.2 Line-Specific Configuration

1. Click the **Line1** or **Line2** tab at the top of the page, and in the *NAT Settings* section, change the following setting:

Field	Value
NAT Keep Alive Enable	no

2. In the *Proxy and Registration* section (see the screen on the following page), change the following settings:

Field	Value
Proxy	sip.callspeak.com
Use Outbound Proxy	no
Use OB Proxy In Dialog	no
Make Call Without Reg	yes
Ans Call Without Reg	yes
DNS SRV Auto Prefix	no

3. In the *Subscriber Information* section (as shown in the *Line 1/2 Page* screen on the following page), enter a **Display Name**. This value can be any alphanumeric string. Enter the following values for outbound only service:

Service Type	Field	Display Name Value
OUTBOUND SERVICE ONLY	Display Name (Line 1)	NO_DID1
	Display Name (Line 2)	NO_DID2

4. Enter the **User ID** (account) and **Password** (PIN).


NOTE

The account number must be followed by a period (.) and then the NIC. For example, if your account number is 1234567890, you would enter:
1234567890.523

IMPORTANT

You must have a different account and PIN for Line 1 and Line 2.

5. Click the **Use Auth ID** drop-down menu, and click **no**.


A Division of Cisco Systems, Inc.
Firmware Version: 2.0.12(LS)

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

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

Advanced View (switch to basic view)
User Login

Streaming Audio Server (SAS)	Line Enable: <input type="checkbox"/> yes	
NAT Settings	SAS Enable: <input type="checkbox"/> no	SAS DLG Refresh Intvl: <input type="text" value="30"/>
Network Settings	SAS Inbound RTP Sink: <input type="text"/>	
SIP Settings	NAT Mapping Enable: <input type="checkbox"/> no	NAT Keep Alive Enable: <input type="checkbox"/> no
Call Feature Settings	NAT Keep Alive Msg: \$NOTIFY	NAT Keep Alive Dest: \$PROXY
Proxy and Registration	SIP TOS/DiffServ Value: 0x68	Network Jitter Level: high
Subscriber Information	RTP TOS/DiffServ Value: 0xb8	
Supplementary Service Subscription	SIP Port: 5060	SIP 100REL Enable: <input type="checkbox"/> no
Audio Configuration	EXT SIP Port: <input type="text"/>	Auth Resync-Reboot: <input type="checkbox"/> yes
Dial Plan	SIP Debug Option: none	RTP Log Intvl: 0
FXS Port Polarity Configuration	Restrict Source IP: <input type="checkbox"/> no	
	Blind Attn-Xfer Enable: <input type="checkbox"/> no	MOH Server: <input type="text"/>
	Xfer When Hangup Conf: <input type="checkbox"/> yes	
	Proxy: sip.callspeak.com	Use Outbound Proxy: <input type="checkbox"/> no
	Outbound Proxy: <input type="text"/>	Use OB Proxy In Dialog: <input type="checkbox"/> no
	Register: <input type="checkbox"/> yes	Make Call Without Reg: <input type="checkbox"/> no
	Register Expires: 300	Ans Call Without Reg: <input type="checkbox"/> yes
	Use DNS SRV: <input type="checkbox"/> no	DNS SRV Auto Prefix: <input type="checkbox"/> no
	Proxy Fallback Intvl: 3600	Voice Mail Server: <input type="text"/>
	Display Name: NO DID1	User ID: 1234567890.523
	Password: <input type="password" value="XXXXXXXXXX"/>	Use Auth ID: <input type="checkbox"/> no
	Auth ID: <input type="text"/>	
	Mini Certificate: <input type="text"/>	
	SRTP Private Key: <input type="text"/>	
	Call Waiting Serv: <input type="checkbox"/> yes	Block CID Serv: <input type="checkbox"/> yes
	Block ANC Serv: <input type="checkbox"/> yes	Dist Ring Serv: <input type="checkbox"/> yes
	Cfwd All Serv: <input type="checkbox"/> yes	Cfwd Busy Serv: <input type="checkbox"/> yes
	Cfwd No Ans Serv: <input type="checkbox"/> yes	Cfwd Sel Serv: <input type="checkbox"/> yes
	Cfwd Last Serv: <input type="checkbox"/> yes	Block Last Serv: <input type="checkbox"/> yes
	Accept Last Serv: <input type="checkbox"/> yes	DND Serv: <input type="checkbox"/> yes
	CID Serv: <input type="checkbox"/> yes	CW/CID Serv: <input type="checkbox"/> yes
	Call Return Serv: <input type="checkbox"/> yes	Call Back Serv: <input type="checkbox"/> yes
	Three Way Call Serv: <input type="checkbox"/> yes	Three Way Conf Serv: <input type="checkbox"/> yes
	Attn Transfer Serv: <input type="checkbox"/> yes	Unattn Transfer Serv: <input type="checkbox"/> yes
	MVM Serv: <input type="checkbox"/> yes	MVM Serv: <input type="checkbox"/> yes
	Speed Dial Serv: <input type="checkbox"/> yes	Secure Call Serv: <input type="checkbox"/> yes
	Referral Serv: <input type="checkbox"/> yes	Feature Dial Serv: <input type="checkbox"/> yes
	Preferred Codec: G723	Silence Supp Enable: <input type="checkbox"/> no
	Use Pref Codec On: <input type="checkbox"/> no	Silence Threshold: medium
	G729a Enable: <input type="checkbox"/> yes	Echo Canc Enable: <input type="checkbox"/> yes
	G723 Enable: <input type="checkbox"/> yes	Echo Canc Adapt Enable: <input type="checkbox"/> yes
	G726-16 Enable: <input type="checkbox"/> no	Echo Supp Enable: <input type="checkbox"/> yes
	G726-24 Enable: <input type="checkbox"/> no	FAX CED Detect Enable: <input type="checkbox"/> yes
	G726-32 Enable: <input type="checkbox"/> no	FAX CNG Detect Enable: <input type="checkbox"/> yes
	G726-40 Enable: <input type="checkbox"/> no	FAX Passthru Codec: G711u
	FAX Codec Symmetric: <input type="checkbox"/> yes	FAX Passthru Method: NSE
	DTMF Tx Method: AVT	FAX Process NSE: <input type="checkbox"/> yes
	Hook Flash Tx Method: None	Release Unused Codec: <input type="checkbox"/> yes
	Dial Plan: [*xx][3469]1110000[2-9]xxxxxx[1xxx[2-9]xxxxxxS0]xxxxxx	
	Enable IP Dialing: <input type="checkbox"/> no	
	Idle Polarity: Forward	Caller Conn Polarity: Forward
	Callee Conn Polarity: Forward	

Line1/2 Page

Page 6

6. Scroll to the *Audio Configuration* section (as shown in the *Line 1/2 Page* screen on the previous page), and change the following settings:

Field	Value
Preferred Codec	G723
Use Pref Codec Only	no
G729a Enable	yes
G723 Enable	yes
G726-16 Enable	no
G726-24 Enable	no
G726-32 Enable	no
G726-40 Enable	no
DTMF Tx Method	AVT

7. In the **Dial Plan** section, change the **Dial Plan** to fit the dialing pattern in your country. The dialed number must start with '1' for US calls and '011' for non-US calls. Please read the PAP2 manual to customize your dial plan.
8. Click the **Save Settings** button to save the settings.