



LUNAprone Linksys PAP2-NA Configuration Manual



In the equipment configuration page (the example shows the most difficult configuration with DHCP and NAT servers enabled):

A. "System" section

The screenshot shows the Linksys configuration interface for a PAP2-NA phone adapter. The page is titled "Voice" and "Phone Adapter with 2 Ports for Voice-Over-IP". The "System" tab is selected, showing various configuration options. The "System Configuration" section includes fields for Restricted Access Domains, Enable Web Server (set to yes), Web Server Port (80), Enable Web Admin Access (set to yes), Admin Password, and User Password. The "Internet Connection Type" section includes DHCP (set to yes), Static IP (203.101.74.195), NetMask (255.255.255.240), and Gateway (203.101.74.193). The "Optional Network Configuration" section includes HostName, Domain, Primary DNS, Secondary DNS, DNS Server Order (Manual), DNS Query Mode (Parallel), Syslog Server, Debug Server, Debug Level (0), and Primary NTP Server. The page includes "Save Settings" and "Cancel Settings" buttons at the bottom. The Cisco Systems logo is visible in the bottom right corner.

Section	Field	Value
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:	yes
	Static IP:	203.101.74.195
	NetMask:	255.255.255.240
	Gateway:	203.101.74.193
Optional Network Configuration	HostName:	
	Domain:	
	Primary DNS:	
	Secondary DNS:	
	DNS Server Order:	Manual
	DNS Query Mode:	Parallel
	Syslog Server:	
	Debug Server:	
Debug Level:	0	
Primary NTP Server:		
Secondary NTP Server:		

“SIP” section

LINKSYS
A Division of Cisco Systems, Inc.
Firmware Version: 2.0.12(L5)

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

Voice

[Info](#)
[System](#)
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[Regional](#)
[Line 1](#)
[Line 2](#)
[User 1](#)
[User 2](#)

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

SIP Parameters	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Max Forward: <input type="text" value="70"/></td> <td style="width: 50%;">Max Redirection: <input type="text" value="5"/></td> </tr> <tr> <td>Max Auth: <input type="text" value="2"/></td> <td>SIP User Agent Name: <input type="text" value="\$VERSION"/></td> </tr> <tr> <td>SIP Server Name: <input type="text" value="\$VERSION"/></td> <td>SIP Accept Language: <input type="text"/></td> </tr> <tr> <td>DTMF Relay MIME Type: <input type="text" value="application/dtmf-rel"/></td> <td>Hook Flash MIME Type: <input type="text" value="application/hook-fl"/></td> </tr> <tr> <td>Remove Last Reg: <input type="text" value="no"/></td> <td>Use Compact Header: <input type="text" value="no"/></td> </tr> </table>	Max Forward: <input type="text" value="70"/>	Max Redirection: <input type="text" value="5"/>	Max Auth: <input type="text" value="2"/>	SIP User Agent Name: <input type="text" value="\$VERSION"/>	SIP Server Name: <input type="text" value="\$VERSION"/>	SIP Accept Language: <input type="text"/>	DTMF Relay MIME Type: <input type="text" value="application/dtmf-rel"/>	Hook Flash MIME Type: <input type="text" value="application/hook-fl"/>	Remove Last Reg: <input type="text" value="no"/>	Use Compact Header: <input type="text" value="no"/>								
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SIP Timer Values (sec)	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">SIP T1: <input type="text" value="5"/></td> <td style="width: 50%;">SIP T2: <input type="text" value="4"/></td> </tr> <tr> <td>SIP T4: <input type="text" value="5"/></td> <td>SIP Timer B: <input type="text" value="32"/></td> </tr> <tr> <td>SIP Timer F: <input type="text" value="32"/></td> <td>SIP Timer H: <input type="text" value="32"/></td> </tr> <tr> <td>SIP Timer D: <input type="text" value="32"/></td> <td>SIP Timer J: <input type="text" value="32"/></td> </tr> <tr> <td>INVITE Expires: <input type="text" value="240"/></td> <td>ReINVITE Expires: <input type="text" value="30"/></td> </tr> <tr> <td>Reg Min Expires: <input type="text" value="1"/></td> <td>Reg Max Expires: <input type="text" value="7200"/></td> </tr> <tr> <td>Reg Retry Intvl: <input type="text" value="30"/></td> <td>Reg Retry Long Intvl: <input type="text" value="1200"/></td> </tr> </table>	SIP T1: <input type="text" value="5"/>	SIP T2: <input type="text" value="4"/>	SIP T4: <input type="text" value="5"/>	SIP Timer B: <input type="text" value="32"/>	SIP Timer F: <input type="text" value="32"/>	SIP Timer H: <input type="text" value="32"/>	SIP Timer D: <input type="text" value="32"/>	SIP Timer J: <input type="text" value="32"/>	INVITE Expires: <input type="text" value="240"/>	ReINVITE Expires: <input type="text" value="30"/>	Reg Min Expires: <input type="text" value="1"/>	Reg Max Expires: <input type="text" value="7200"/>	Reg Retry Intvl: <input type="text" value="30"/>	Reg Retry Long Intvl: <input type="text" value="1200"/>				
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Response Status Code Handling	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">SIT1 RSC: <input type="text"/></td> <td style="width: 50%;">SIT2 RSC: <input type="text"/></td> </tr> <tr> <td>SIT3 RSC: <input type="text"/></td> <td>SIT4 RSC: <input type="text"/></td> </tr> <tr> <td>Try Backup RSC: <input type="text"/></td> <td>Retry Reg RSC: <input type="text"/></td> </tr> </table>	SIT1 RSC: <input type="text"/>	SIT2 RSC: <input type="text"/>	SIT3 RSC: <input type="text"/>	SIT4 RSC: <input type="text"/>	Try Backup RSC: <input type="text"/>	Retry Reg RSC: <input type="text"/>												
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Save Settings
Cancel Settings

C. "Line1" section

LINKSYS
A Division of Cisco Systems, Inc. Firmware Version: 2.0.12(L5)

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	SAS Enable: <input type="checkbox"/> no	SAS DLG Refresh Intvl: <input type="text" value="30"/>
NAT Settings	SAS Inbound RTP Sink: <input type="text"/>	NAT Mapping Enable: <input type="checkbox"/> yes	NAT Keep Alive Enable: <input type="checkbox"/> yes
Network Settings	NAT Keep Alive Msg: <input type="text" value="\$NOTIFY"/>	NAT Keep Alive Dest: <input type="text" value="\$PROXY"/>	
SIP Settings	SIP TOS/DiffServ Value: <input type="text" value="0x68"/>	Network Jitter Level: <input type="checkbox"/> high	
Call Feature Settings	RTP TOS/DiffServ Value: <input type="text" value="0xb8"/>	SIP Port: <input type="text" value="5060"/>	SIP 100REL Enable: <input type="checkbox"/> yes
		EXT SIP Port: <input type="text"/>	Auth Resync-Reboot: <input type="checkbox"/> yes
		SIP Debug Option: <input type="checkbox"/> none	RTP Log Intvl: <input type="text" value="0"/>
		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 and Registration	Proxy: <input type="text" value="216.206.188.214:5060"/>	Use Outbound Proxy: <input type="checkbox"/> yes
	Outbound Proxy: <input type="text" value="216.206.188.214:5060"/>	Use OB Proxy In Dialog: <input type="checkbox"/> no
	Register: <input type="checkbox"/> no	Make Call Without Reg: <input type="checkbox"/> yes
	Register Expires: <input type="text" value="3600"/>	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: <input type="text" value="3600"/>	Voice Mail Server: <input type="text"/>
Subscriber Information	Display Name: <input type="text" value="LUNApHone PIN"/>	User ID: <input type="text" value="LUNApHone PIN"/>
	Password: <input type="text" value="LUNApHone PASSWORD"/>	Use Auth ID: <input type="checkbox"/> yes
	Auth ID: <input type="text" value="LUNApHone PIN"/>	
	Mini Certificate: <input type="text"/>	
	SRTP Private Key: <input type="text"/>	
Supplementary Service Subscription	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	CWCID 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	VMM 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

Audio Configuration	
Preferred Codec:	G729a
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
FAX Codec Symmetric:	yes
DTMF Tx Method:	Auto
Hook Flash Tx Method:	None
Silence Supp Enable:	no
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 Passthru Method:	NSE
FAX Process NSE:	yes
Release Unused Codec:	yes

Dial Plan	
Dial Plan:	[*xx][3469]1110 00 [2-9]xxxxxx1 xxx [2-9]xxxxxS0 xxxxxxxx
Enable IP Dialing:	no

FXS Port Polarity Configuration	
Idle Polarity:	Reverse
Caller Conn Polarity:	Forward
Callee Conn Polarity:	Forward

CISCO SYSTEMS

!!NOTE!! This interface is visible in case of *ip-address/admin/advanced* access.

!!NOTE!! Line2 section is same as Line1 and expects similar changes to be enabled.

In case of static public IP:

In A-screen:

- DHCP *no*
- Static IP *ATA IP*
- Gateway *Gateway IP*

In B-screen:

- STUN server *216.206.188.198:3478*
- STUN server Enable *Yes*
- STUN test Enable *Yes*

In C-screen:

- Line Enable *Yes*
- Proxy *216.206.188.214:5070*
- Outbound Proxy *216.206.188.214:5070*
- Register *No*
- Use Outbound Proxy *Yes*
- Make Calls Without Reg *Yes*
- Ans Calls Without Reg *Yes*
- Password *LUNaphone PASSWORD*
- Auth ID *LUNaphone PIN*
- User ID *LUNaphone PIN*
- Use Auth ID *Yes*
- Preferred Codec *G729a*
- Use Pref Codec Only *No*
- G729a Enable *Yes*
- G723 Enable *Yes*

All other setting *default*

In case of public IP using DHCP:

In A-section:

- DHCP *yes*

B-section and C-section settings are same as previous.

In case of using NAT (static private ip):

In A-section:

- DHCP *no*
- Static IP *Static Internal IP*
- Gateway *Router IP (NAT Internal IP)*
- Net Mask *Net Mask (255.255.255.0)*

In C-section:

- NAT Mapping Enable *Yes*

B-section and *other* C-section settings are same as previous.

In case of using NAT and DHCP:

In A-section:

- DHCP *yes*

In C-section:

- NAT Mapping Enable *Yes*

B-section and *other* C-section settings are same as previous.