

WORLDSMART™



Bulletin SPA001 –Linksys SPA-941/942 Configuration for WorldSmart Configuring the Linksys SPA-941/942 via the Web Interface

If you press the page key then arrow down to 9 (Network), then press *select*, this will display the IP address of the device. Once you have the IP address of your Sipura / Linksys you can access the web interface by opening a web browser and typing the following in the Address:

<http://< IP Address of Sipura / Linksys>>

For example: <http://192.168.1.20>

You should now see the Linksys Welcome screen. See image below.

LINKSYS®
A Division of Cisco Systems, Inc.

Linksys Telephone Configuration

[Admin Login](#) [basic](#) | [advanced](#)
[Personal Directory](#) [Call History](#)

Info System User

System Information

DHCP:	DHCP	Current IP:	192.168.1.108
Host Name:	SipuraSPA	Domain:	pacbell.net
Current Netmask:	255.255.255.0	Current Gateway:	192.168.1.1
Primary DNS:	68.94.156.1		
Secondary DNS:	68.94.157.1		

Product Information

Product Name:	SPA-942	Serial Number:	88019FA03928
Software Version:	4.1.10(e)	Hardware Version:	1.0.0(574f)
MAC Address:	000E08DB8522	Client Certificate:	Installed
Licenses:	None		

Phone Status

Current Time:	6/1/2006 20:56:57	Elapsed Time:	3 days and 03:27:57
Broadcast Pkts Sent:	3	Broadcast Bytes Sent:	1026
Broadcast Pkts Recv:	2010	Broadcast Bytes Recv:	135246
Broadcast Pkts Dropped:	0	Broadcast Bytes Dropped:	0
RTP Packets Sent:	260372	RTP Bytes Sent:	30041008
RTP Packets Recv:	299079	RTP Bytes Recv:	29953670
SIP Messages Sent:	6043	SIP Bytes Sent:	3189340
SIP Messages Recv:	13486	SIP Bytes Recv:	6950275
External IP:			

When the Welcome screen is loaded, select **Admin Login** then **Advanced**. Once logged in press the **System** tab.

System

Under the System Settings make sure the following is set.

Internet Connection Type

DHCP: **Yes** or **No** (If **NO** then the following will be needed)

Static IP: **xxx.xxx.xxx.xxx (e.g. 192.168.1.20)**

NetMask: **xxx.xxx.xxx.xxx (e.g. 255.255.255.0)**

Gateway: **xxx.xxx.xxx.xxx (e.g. 192.168.1.1)**

Optional Network Configuration

HostName: **myphone (this is your hostname)**

Domain: **mydomain.co.uk (this is your domain)**

Primary DNS: **xxx.xxx.xxx.xxx (e.g. 192.168.1.1)**

Secondary DNS: **xxx.xxx.xxx.xxx (e.g. 192.168.4.247)**

Other setting like NTP can be configured if desired.

LINKSYS[®]
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Linksys Telephone Configuration

Info **System** SIP Regional Phone Ext 1 Ext 2 User [User Login](#) [basic](#) | [advanced](#)
[Personal Directory](#) [Call History](#)

System Configuration
Enable Web Server: yes User Password:

Internet Connection Type
Connection Type: DHCP

Static IP Settings
Static IP: NetMask:
Gateway:

PPPoE Settings
PPPoE Login Name: PPPoE Login Password:

Optional Network Configuration
HostName: Domain:
Primary DNS: Secondary DNS:
DNS Query Mode: Parallel Syslog Server:
Debug Server: Debug Level: 0


SIP

Under the SIP Settings, make sure the following is set.

RTP Parameters

RTP Packet Size: **0.020**

All other settings can be left as default.


A Division of Cisco Systems, Inc. Linksys Telephone Configuration

Info System **SIP** Provisioning Regional Phone Ext 1 Ext 2 User[User Login](#) [basic](#) | [advanced](#)
[Personal Directory](#) [Call History](#)

SIP Parameters

Max Forward:	70	Max Redirection:	5
Max Auth:	2	SIP User Agent Name:	\$VERSION
SIP Server Name:	\$VERSION	SIP Reg User Agent Name:	
SIP Accept Language:		DTMF Relay MIME Type:	application/dtmf-relay
Remove Last Reg:	<input type="checkbox"/>	Use Compact Header:	<input type="checkbox"/>
Escape Display Name:	<input type="checkbox"/>	Linksys Key System:	<input type="checkbox"/>
SIP-B Enable:	<input type="checkbox"/>	Talk Package:	<input type="checkbox"/>
Hold Package:	<input type="checkbox"/>	Conference Package:	<input type="checkbox"/>
Notify Conference:	<input type="checkbox"/>		

SIP Timer Values (sec)

SIP T1:	.5	SIP T2:	4
SIP T4:	5	SIP Timer B:	16
SIP Timer F:	16	SIP Timer H:	16
SIP Timer D:	16	SIP Timer J:	16
INVITE Expires:	240	ReINVITE Expires:	30
Reg Min Expires:	1	Reg Max Expires:	7200
Reg Retry Intvl:	30	Reg Retry Long Intvl:	1200
Sub Min Expires:	10	Sub Max Expires:	7200
Sub Retry Intvl:	10		

Response Status Code Handling

SIT1 RSC:		SIT2 RSC:	
SIT3 RSC:		SIT4 RSC:	
Try Backup RSC:		Retry Reg RSC:	

RTP Parameters

RTP Port Min:	16304	RTP Port Max:	16402
RTP Packet Size:	0.030	Max RTP ICMP Err:	0
RTCP Tx Interval:	0	No UDP Checksum:	<input type="checkbox"/>
Symmetric RTP:	<input type="checkbox"/>	Stats In BYE:	<input type="checkbox"/>

SDP Payload Types

AVT Dynamic Payload:	101	INFOREQ Dynamic Payload:	
G726r16 Dynamic Payload:	98	G726r24 Dynamic Payload:	97
G726r40 Dynamic Payload:	96	G729b Dynamic Payload:	99
AVT Codec Name:	telephone-event	G711u Codec Name:	PCMU
G711a Codec Name:	PCMA	G729r16 Codec Name:	G726-16
G726r24 Codec Name:	G726-24	G726r32 Codec Name:	G726-32
G726r40 Codec Name:	G726-40	G729a Codec Name:	G729a
G729b Codec Name:	G729ab	G723 Codec Name:	G723

NAT Support Parameters

Handle VIA received:	<input type="checkbox"/>	Handle VIA rport:	<input type="checkbox"/>
Insert VIA received:	<input type="checkbox"/>	Insert VIA rport:	<input type="checkbox"/>
Substitute VIA Addr:	<input type="checkbox"/>	Send Resp To Src Port:	<input type="checkbox"/>
STUN Enable:	<input type="checkbox"/>	STUN Test Enable:	<input type="checkbox"/>
STUN Server:		EXT IP:	
EXT RTP Port Min:		NAT Keep Alive Intvl:	15

Linksys Key System Parameters

Multicast Address:	224.160.160.160:6061
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[User Login](#) [basic](#) | [advanced](#)

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Ext 1

Under the Ext 1 Settings make sure the following is set.

General

Line Enable: **YES**

Share Line Appearance

Share Ext: **private**

Subscription Expires: **3600**

Shared User ID: **worldsmartcentral User ID**

Call Feature Settings

Mailbox ID: **worldsmartcentral Voice Mail ID**

All other settings can be left as default.

General

Line Enable: yes no

Share Line Appearance

Share Ext: private shared Shared User ID:

Subscription Expires: 3600

NAT Settings

NAT Mapping Enable: no yes NAT Keep Alive Enable: no yes

NAT Keep Alive Msg: \$NOTIFY NAT Keep Alive Dest: \$PROXY

Network Settings

SIP TOS/DiffServ Value: 0x68 SIP CoS Value: 3

RTP TOS/DiffServ Value: 0xb8 RTP CoS Value: 6

Network Jitter Level: high Jitter Buffer Adjustment: up and down

SIP Settings

SIP Port: 5060 SIP 100REL Enable: no yes

EXT SIP Port: Auth Resync-Reboot: no yes

SIP Proxy-Require: SIP Remote-Party-ID: no yes

Referor Bye Delay: 4 Refer-To Target Contact:

Referee Bye Delay: 0 SIP Debug Option: none

Refer Target Bye Delay: 0 Sticky 183: no yes

Call Feature Settings

Blind Attn-Xfer Enable: yes no MOH Server:

Message Waiting: yes no Auth Page: no yes

Default Ring: 10 Auth Page Realm:

Conference Bridge URL: Auth Page Password:

Mailbox ID: mwi-9018 Voice Mail Server:

State Agent: CFWD Notify Serv: no yes

CFWD Notifier:

Proxy and Registration

Proxy: p7.wspbx.com Use Outbound Proxy: yes no

Outbound Proxy: p7.wspbx.com Use OB Proxy In Dialog: yes no

Register: yes no Make Call Without Reg: no yes

Register Expires: 3600 Ans Call Without Reg: no yes

Use DNS SRV: no yes DNS SRV Auto Prefix: no yes

Proxy Fallback Intvl: 3600 Proxy Redundancy Method: Normal

Subscriber Information

Display Name: Jon US User ID: jon2-worksmart-com

Password: ***** Use Auth ID: yes no

Auth ID: jon2-worksmart-com@

Mini Certificate:

SRTP Private Key:

Audio Configuration

Preferred Codec: G729a Use Pref Codec Only: no yes

G729a Enable: yes no G723 Enable: yes no

G726-16 Enable: yes no G726-24 Enable: yes no

G726-32 Enable: yes no G726-40 Enable: yes no

Release Unused Codec: yes no DTMF Process AVT: yes no

Silence Supp Enable: no yes DTMF Tx Method: Auto

Dial Plan

Dial Plan: (*xx[[3469]11|0|00|[2-9]xxxxxx|1xxx[2-9]xxxxxS0|xxxxxxxxxxxxx.)

Enable IP Dialing: yes no

Proxy and Registration

Proxy: **p7.wspbx.com**
Outbound Proxy: **p7.wspbx.com**
Register: **YES**
Register Expires: **3600**
Use DNS SRV: **NO**
Proxy Fallback Intvl: **3600 Use**

Outbound Proxy: **YES**
Use OB Proxy in Dialog: **YES**
Make Call without Reg: **NO**
Ans Call without Reg: **NO**
DNS SRV Auto Prefix: **NO**
Proxy Redundancy Method: **Normal**

Subscriber Information

Display Name: **Friendly Name**

User ID : (see notes)
worldsmartcentral User ID

Password: **worldsmartcentral Password**

Use Auth ID: **YES**

Auth ID : (see notes) **worldsmartcentral User ID**

Audio Configuration

Preferred Codec: **G729a**

All other settings can be left as default.

General
Line Enable: yes

Share Line Appearance
Share Ext: private Shared User ID:
Subscription Expires: 3600

NAT Settings
NAT Mapping Enable: no NAT Keep Alive Enable: no
NAT Keep Alive Msg: \$NOTIFY NAT Keep Alive Dest: \$PROXY

Network Settings
SIP TOS/DiffServ Value: 0x68 SIP CoS Value: 3
RTP TOS/DiffServ Value: 0xb8 RTP CoS Value: 6
Network Jitter Level: high Jitter Buffer Adjustment: up and down

SIP Settings
SIP Port: 5060 SIP 100REL Enable: no
EXT SIP Port: Auth Resync-Reboot: yes
SIP Proxy-Require: SIP Remote-Party-ID: no
Referer Bye Delay: 4 Refer-To Target Contact: yes
Referee Bye Delay: 0 SIP Debug Option: none
Refer Target Bye Delay: 0 Sticky 183: no

Call Feature Settings
Blind Attn-Xfer Enable: yes MOH Server:
Message Waiting: yes Auth Page: no
Default Ring: 10 Auth Page Realm:
Conference Bridge URL: Auth Page Password:
Mailbox ID: mwi-9018 Voice Mail Server:
State Agent: CFWD Notify Serv: no
CFWD Notifier:

Proxy and Registration
Proxy: p7.wspbx.com Use Outbound Proxy: yes
Outbound Proxy: p7.wspbx.com Use OB Proxy In Dialog: yes
Register: yes Make Call Without Reg: no
Register Expires: 3600 Ans Call Without Reg: no
Use DNS SRV: no DNS SRV Auto Prefix: none
Proxy Fallback Intvl: 3600 Proxy Redundancy Method: Normal

Subscriber Information
Display Name: Jon US User ID: jon2-worksmart-com
Password: ***** Use Auth ID: yes
Auth ID: jon2-worksmart-com@
Mini Certificate:
SRTP Private Key:

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
Release Unused Codec: yes DTMF Process AVT: yes
Silence Supp Enable: no DTMF Tx Method: Auto

Dial Plan
Dial Plan: (*xx|[3469]11|0|0|[2-9]xxxxxx|1xxx[2-9]xxxxxS0|xxxxxxxxxx.)
Enable IP Dialing: yes

Notes:

worldsmartcentral User/Auth ID's are formatted like this:

username1-companyname

username1 = is the WorldSmart user ID

companyname = is the WorldSmart account

Example: scott1-WorldSmart-com or alex1-ibm or joe1-newco-com

Phone

Under the Phone Settings make sure the following is set.

General

Voice Mail Number: **9999 (worldsmartcentral Voice Mail)**

Note: worldsmartcentral voicemail is always 9999

Line Key 1

Extension: **1**

Short Name: **Any Name**

Share Call Appearance: **Private**

All other settings can be left as default or add other lines.

General

Station Name: Pandora Voice Mail Number: 9999
Text Logo:

Line Key 1

Extension: 1 Short Name: Jon US
Share Call Appearance: private

Line Key 2

Extension: 2 Short Name: Jon UK
Share Call Appearance: private

Line Key 3

Extension: Disabled Short Name: \$USER
Share Call Appearance: private

Line Key 4

Extension: Disabled Short Name: \$USER
Share Call Appearance: private

Line Key LED Pattern

Idle LED:		Remote Undefined LED:	
Local Seized LED:		Remote Seized LED:	
Local Progressing LED:		Remote Progressing LED:	
Local Ringing LED:		Remote Ringing LED:	
Local Active LED:		Remote Active LED:	
Local Held LED:		Remote Held LED:	
Register Failed LED:		Disabled LED:	
Registering LED:		Call Back Active LED:	

Supplementary Services

Conference Serv:	yes	Attn Transfer Serv:	yes
Blind Transfer Serv:	yes	DND Serv:	yes
Block ANC Serv:	yes	Call Back Serv:	yes
Block CID Serv:	yes	Secure Call Serv:	yes
Cfwd All Serv:	yes	Cfwd Busy Serv:	yes
Cfwd No Ans Serv:	yes	Paging Serv:	yes
Call Park Serv:	yes	Call Pick Up Serv:	yes
ACD Login Serv:	no	Group Call Pick Up Serv:	yes
ACD Ext:	1		

Ring Tone

Ring1:	n=Classic-1;w=3;c=1
Ring2:	n=Classic-2;w=3;c=2
Ring3:	n=Classic-3;w=3;c=3
Ring4:	n=Classic-4;w=3;c=4
Ring5:	n=Simple-1;w=2;c=1
Ring6:	n=Simple-2;w=2;c=2
Ring7:	n=Simple-3;w=2;c=3
Ring8:	n=Simple-4;w=2;c=4
Ring9:	n=Simple-5;w=2;c=5
Ring10:	n=Office;w=4;c=1

Audio Input Gain (dB)

Handset Input Gain: 0 Headset Input Gain: 0
Speakerphone Input Gain: 0

[Undo All Changes](#) [Submit All Changes](#)