

Podešavanje Linksys SPA901 telefona:

SPA901 nema display, tako da se osnovno konfigurisanje može vršiti preko telefona pomoću IVR-a (interactive voice response). Detaljno podešavanje se radi putem Web interface-a telefona.

Podešavanje pomoću IVR-a

1. Podignuti slušalicu, i za ulazak u meni, pritisnuti 4 puta taster *
2. Odabrati i otkucati neku od opcija(komandi), nakon čega je potrebno pritisnuti taster #.
3. Za potvrdu promene unetog parametra pritisnuti taster 1, za pregled promene pritisnuti taster 2, za novo unošenje parametra pritisnuti taster 3, za poništavanje promene i vraćanje u glavni meni je potrebno pritisnuti taster *
4. Za izlazak iz menija spustiti slušalicu

Opcije:

- 100 Da čujemo da li je DHCP uključen ili isključen
- 101 Da isključimo DHCP otkucamo ovaj kod i 0#
- 101 Da uključimo DHCP otkucamo ovaj kod i 1#
- 110 Da čujemo IP adresu telefona
- 111 Da dodelimo IP adresu (****111# pa 192*168*51*194# npr.)
- 120 Da čujemo subnet masku telefona
- 121 Da setujemo subnet masku (****121# pa 255*255*255*0# npr.)
- 130 Da čujemo Default gateway
- 131 Da postavimo Default gateway (moguće je samo ako je DHCP isključen)
- 140 Da čujemo MAC
- 150 Da čujemo verziju firmware-a
- 160 Da čujemo Primary DNS adresu
- 161 Da setujemo Primary DNS (****161# pa 192*168*51*1# na primer)
- 732668 Za reboot
- 73738# Da vratimo telefon na fabričke vrednosti (ne briše šifre)
- 877778# Da vratimo telefon na fabričke vrednosti (briše sve)

Podešavanje pomoću Web interface-a

Nakon osnovnih podešavanja, potrebno je pristupiti Web interface-u telefona putem lokalnog kompjutera pomoću browsera, unoseći IP adresu telefona..

Prvo se otvara **Info** prozor:

Nakon toga je potrebno pristupiti Admin nalogu, i advanced modu podešavanja. Po defaultu ne postoji password za administratorski pristup.

Info System User

Admin Login basic **Advanced** Call History

System Information

DHCP:	Disabled	Current IP:	192.168.33.131
Host Name:	3505	Domain:	
Current Netmask:	255.255.255.192	Current Gateway:	192.168.33.129
Primary DNS:			
Secondary DNS:			

Product Information

Product Name:	SPA-901	Serial Number:	8801AFA10223
Software Version:	4.1.12(a)	Hardware Version:	1.0.0(6529)
MAC Address:	000E08DB161A	Client Certificate:	Installed
Licenses:	None		

Phone Status

Current Time:	1/1/2003 12:32:47	Elapsed Time:	00:32:47
Broadcast Pkts Sent:	0	Broadcast Bytes Sent:	0
Broadcast Pkts Recv:	50	Broadcast Bytes Recv:	7110
Broadcast Pkts Dropped:	0	Broadcast Bytes Dropped:	0
RTP Packets Sent:	0	RTP Bytes Sent:	0
RTP Packets Recv:	0	RTP Bytes Recv:	0
SIP Messages Sent:	301	SIP Bytes Sent:	179067
SIP Messages Recv:	0	SIP Bytes Recv:	0
External IP:			

Ext 1 Status

Registration State:	Failed	Last Registration At:	0/0/0 00:00:00
Next Registration In:	10 s	Message Waiting:	No
Mapped SIP Port:			

Call 1 Status

Call State:	No Service	Tone:	None
Encoder:		Decoder:	
Type:		Remote Hold:	
Callback:		Peer Name:	
Peer Phone:		Duration:	
Packets Sent:		Packets Recv:	
Bytes Sent:		Bytes Recv:	
Decode Latency:		Jitter:	
Round Trip Delay:		Packets Lost:	
Packet Error:		Mapped RTP Port:	

Call 2 Status

Call State:	No Service	Tone:	None
Encoder:		Decoder:	
Type:		Remote Hold:	
Callback:		Peer Name:	
Peer Phone:		Duration:	
Packets Sent:		Packets Recv:	
Bytes Sent:		Bytes Recv:	
Decode Latency:		Jitter:	
Round Trip Delay:		Packets Lost:	
Packet Error:		Mapped RTP Port:	

Downloaded Ring Tone

Status:	Idle
Ring Tone 1:	Not Installed
Ring Tone 2:	Not Installed

Undo All Changes

Submit All Changes

Otvoriti **System** tab i u njemu izvršiti sledeća podešavanja:

- [Enable Web Server](#): YES ili NO (opciono) – ovim se omogućava pristup telefonu sa udaljenog kompjutera, putem interneta
- [Enable Web Admin Access](#): YES – omogućava administratorski pristup Web interface-u telefona preko lokalnog kompjutera
- [Admin Password](#): administratorski password
- [User Password](#): korisnički password, obavezno ga definisati ukoliko se omogući pristup telefonu putem interneta
 - **NAPOMENA:**
Admin i user password se obavezno razlikuju!!!
- [DHCP](#): YES ili NO – ovde se određuje kako će telefon dobiti IP adresu, gateway i DNS. Ukoliko je DHCP uključen te parametre dobija automatski, a ukoliko je isključen, potrebno je manuelno uneti potrebne podatke (po defaultu je DHCP uključen)
- [Static IP](#): telefonu se dodeljuje statička IP adresa ako je DHCP isključen
- [NetMask](#): u slučaju dodele statičke IP adrese, unosi se i subnet maska za telefon
- [Gateway](#): IP adresa gatewaya za telefon ako mu je DHCP isključen
- [HostName](#): Ime korisnika
- [Primary DNS](#): 77.105.0.18
- [Secondary DNS](#): 77.105.0.19
- [DNS Server Order](#): *Manual* – ukoliko je DHCP isključen; *DHCP, Manual* – ukoliko je DHCP uključen
- [DNS Query Mode](#): Parallel

System Configuration

Restricted Access Domains:

Enable Web Server: Web Server Port:
Enable Web Admin Access: Admin Passwd:
User Password:

Internet Connection Type

DHCP:
Static IP: NetMask:
Gateway:

Optional Network Configuration

HostName: Domain:
Primary DNS: Secondary DNS:
DNS Server Order: DNS Query Mode:
Syslog Server: Debug Server:
Debug Level: Primary NTP Server:
Secondary NTP Server:

VLAN Settings

Enable VLAN: VLAN ID:

Nakon toga je potrebno preći na tab **SIP** i na njemu podesiti RTP parametre:

- [RTP Port Min](#): 16384
- [RTP Port Max](#): 16391 (ovo se radi ukoliko se prosleđuju portovi)

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:	no	Use Compact Header:	no
Escape Display Name:	no	SIP-B Enable:	no
Talk Package:	no	Hold Package:	no
Conference Package:	no	Notify Conference:	no

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:	16384	RTP Port Max:	16391
RTP Packet Size:	0.030	Max RTP ICMP Err:	0
RTCP Tx Interval:	0	No UDP Checksum:	no
Symmetric RTP:	no	Stats In BYE:	no
SDP Payload Types			
AVT Dynamic Payload:	101	INFOREQ Dynamic Payload:	
G726r16 Dynamic Payload:	98	G726r24 Dynamic Payload:	97
G726r32 Dynamic Payload:	2	G726r40 Dynamic Payload:	96
G729b Dynamic Payload:	99	AVT Codec Name:	telephone-event
G711u Codec Name:	PCMU	G711a Codec Name:	PCMA
G726r16 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:	no	Handle VIA rport:	no
Insert VIA received:	no	Insert VIA rport:	no
Substitute VIA Addr:	no	Send Resp To Src Port:	no
STUN Enable:	no	STUN Test Enable:	no
STUN Server:		EXT IP:	
EXT RTP Port Min:		NAT Keep Alive Intvl:	15
Linksys Key System Parameters			
Linksys Key System:	no	Multicast Address:	224.168.168.168:6061
Force LAN Codec:	none		

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Sledeći tab je **Regional**. Tu je potrebno podesiti:

- [Interdigit Short Timer](#): 7
- [Time Zone](#): GMT+01:00
- [Daylight Saving Time Rule](#): start=3/31/7/2:0:0;end=10/31/7/2:0:0;save=1

Call Progress Tones

Dial Tone:	350@-19,440@-19;10(*0/1+2)
Second Dial Tone:	420@-19,520@-19;10(*0/1+2)
Outside Dial Tone:	420@-16;10(*0/1)
Prompt Tone:	520@-19,620@-19;10(*0/1+2)
Busy Tone:	480@-19,620@-19;10(.5/.5/1+2)
Reorder Tone:	480@-19,620@-19;10(.25/.25/1+2)
Off Hook Warning Tone:	480@-10,620@0;10(.125/.125/1+2)
Ring Back Tone:	440@-19,480@-19;*(2/4/1+2)
Call Waiting Tone:	440@-10;30(.3/9.7/1)
Confirm Tone:	600@-16;1(.25/.25/1)
SIT1 Tone:	985@-16,1428@-16,1777@-16;20(.380/0/1,.380/0/2,.380/0/3,0/4/0)
SIT2 Tone:	914@-16,1371@-16,1777@-16;20(.274/0/1,.274/0/2,.380/0/3,0/4/0)
SIT3 Tone:	914@-16,1371@-16,1777@-16;20(.380/0/1,.380/0/2,.380/0/3,0/4/0)
SIT4 Tone:	985@-16,1371@-16,1777@-16;20(.380/0/1,.274/0/2,.380/0/3,0/4/0)
MWI Dial Tone:	350@-19,440@-19;2(.1/.1/1+2);10(*0/1+2)
Cfwd Dial Tone:	350@-19,440@-19;2(.2/.2/1+2);10(*0/1+2)
Holding Tone:	600@-19;25(.1/.1/1,.1/.1/1,.1/9.5/1)
Conference Tone:	350@-19;20(.1/.1/1,.1/9.7/1)
Secure Call Indication Tone:	397@-19,507@-19;15(0/2/0,.2/.1/1,.1/2.1/2)

Distinctive Ring Patterns

Cadence 1:	60(2/4)	Cadence 2:	60(.3/.2/1/.2,.3/4)
Cadence 3:	60(.8/.4,.8/4)	Cadence 4:	60(.4/.2,.3/.2,.8/4)
Cadence 5:	60(.2/.2,.2/.2,.2/2,1/4)	Cadence 6:	60(.2/.4,.2/.4,.2/4)
Cadence 7:	60(4.5/4)	Cadence 8:	60(0.25/9.75)

Control Timer Values (sec)			
Hook Flash Timer Min:	<input type="text" value=".1"/>	Hook Flash Timer Max:	<input type="text" value=".9"/>
Reorder Delay:	<input type="text" value="5"/>	Call Back Expires:	<input type="text" value="1800"/>
Call Back Retry Intvl:	<input type="text" value="30"/>	Call Back Delay:	<input type="text" value=".5"/>
Interdigit Long Timer:	<input type="text" value="10"/>	Interdigit Short Timer:	<input type="text" value="7"/>
Vertical Service Activation Codes			
Call Return Code:	<input type="text" value="*69"/>	Blind Transfer Code:	<input type="text" value="*98"/>
Call Back Act Code:	<input type="text" value="*66"/>	Call Back Deact Code:	<input type="text" value="*86"/>
Cfwd All Act Code:	<input type="text" value="*72"/>	Cfwd All Deact Code:	<input type="text" value="*73"/>
Cfwd Busy Act Code:	<input type="text" value="*90"/>	Cfwd Busy Deact Code:	<input type="text" value="*91"/>
Cfwd No Ans Act Code:	<input type="text" value="*92"/>	Cfwd No Ans Deact Code:	<input type="text" value="*93"/>
Block CID Act Code:	<input type="text" value="*67"/>	Block CID Deact Code:	<input type="text" value="*68"/>
Block CID Per Call Act Code:	<input type="text" value="*81"/>	Block CID Per Call Deact Code:	<input type="text" value="*82"/>
Block ANC Act Code:	<input type="text" value="*77"/>	Block ANC Deact Code:	<input type="text" value="*87"/>
DND Act Code:	<input type="text" value="*78"/>	DND Deact Code:	<input type="text" value="*79"/>
Speed Dial Act Code:	<input type="text" value="*74"/>	Secure All Call Act Code:	<input type="text" value="*16"/>
Secure No Call Act Code:	<input type="text" value="*17"/>	Secure One Call Act Code:	<input type="text" value="*18"/>
Secure One Call Deact Code:	<input type="text" value="*19"/>	Paging Code:	<input type="text" value="*96"/>
Call Park Code:	<input type="text" value="*38"/>	Call UnPark Code:	<input type="text" value="*39"/>
Referral Services Codes:	<input type="text"/>		
Feature Dial Services Codes:	<input type="text"/>		
Outbound Call Codec Selection Codes			
Prefer G711u Code:	<input type="text" value="*017110"/>	Force G711u Code:	<input type="text" value="*027110"/>
Prefer G711a Code:	<input type="text" value="*017111"/>	Force G711a Code:	<input type="text" value="*027111"/>
Prefer G723 Code:	<input type="text" value="*01723"/>	Force G723 Code:	<input type="text" value="*02723"/>
Prefer G726r16 Code:	<input type="text" value="*0172616"/>	Force G726r16 Code:	<input type="text" value="*0272616"/>
Prefer G726r24 Code:	<input type="text" value="*0172624"/>	Force G726r24 Code:	<input type="text" value="*0272624"/>
Prefer G726r32 Code:	<input type="text" value="*0172632"/>	Force G726r32 Code:	<input type="text" value="*0272632"/>
Prefer G726r40 Code:	<input type="text" value="*0172640"/>	Force G726r40 Code:	<input type="text" value="*0272640"/>
Prefer G729a Code:	<input type="text" value="*01729"/>	Force G729a Code:	<input type="text" value="*02729"/>
Miscellaneous			
Set Local Date (mm/dd):	<input type="text"/>	Set Local Time (HH/mm):	<input type="text"/>
Time Zone:	<input type="text" value="GMT+01:00"/>	Time Offset (HH/mm):	<input type="text"/>
Daylight Saving Time Rule:	<input type="text" value="start=3/31/7/2:0:0;end=10/31/7/2:0:0;save=1"/>		
DTMF Playback Level:	<input type="text" value="-16"/>	DTMF Playback Length:	<input type="text" value=".1"/>
Inband DTMF Boost:	<input type="text" value="12dB"/>		

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U tabu **Phone:**

- o [Station Name:](#) ime korisnika

General

Station Name: Voice Mail Number:

Line Key 1

Extension: Share Call Appearance:

Supplementary Services

Conference Serv:	<input type="text" value="yes"/>	Attn Transfer Serv:	<input type="text" value="yes"/>
Blind Transfer Serv:	<input type="text" value="yes"/>	DND Serv:	<input type="text" value="yes"/>
Block ANC Serv:	<input type="text" value="yes"/>	Call Back Serv:	<input type="text" value="yes"/>
Block CID Serv:	<input type="text" value="yes"/>	Secure Call Serv:	<input type="text" value="yes"/>
Cfwd All Serv:	<input type="text" value="yes"/>	Cfwd Busy Serv:	<input type="text" value="yes"/>
Cfwd No Ans Serv:	<input type="text" value="yes"/>	Paging Serv:	<input type="text" value="yes"/>
Call Park Serv:	<input type="text" value="yes"/>		

Ring Tone

Ring1:	<input type="text" value="n=Classic-1;w=3;c=1"/>
Ring2:	<input type="text" value="n=Classic-2;w=3;c=2"/>
Ring3:	<input type="text" value="n=Classic-3;w=3;c=3"/>
Ring4:	<input type="text" value="n=Classic-4;w=3;c=4"/>
Ring5:	<input type="text" value="n=Simple-1;w=2;c=1"/>
Ring6:	<input type="text" value="n=Simple-2;w=2;c=2"/>
Ring7:	<input type="text" value="n=Simple-3;w=2;c=3"/>
Ring8:	<input type="text" value="n=Simple-4;w=2;c=4"/>
Ring9:	<input type="text" value="n=Simple-5;w=2;c=5"/>
Ring10:	<input type="text" value="n=Office;w=4;c=1"/>

Audio Input Gain (dB)

Handset Input Gain:

Undo All Changes

Submit All Changes

Na redu je tab **Ext1**:

- [Line Enable](#): YES
- [SIP Port](#): 5060
- [Proxy](#): sip.sezampro.rs
- [Display Name](#): ime i prezime korisnika
- [User ID](#): User ID korisnika
- [Password](#): Password korisnika
- [Preferred Codec](#): G711a
- [Enable IP Dialing](#): NO

General

Line Enable:

Share Line Appearance

Share Ext: Shared User ID:

Subscription Expires:

NAT Settings

NAT Mapping Enable: NAT Keep Alive Enable:
NAT Keep Alive Msg: NAT Keep Alive Dest:

Network Settings

SIP TOS/DiffServ Value: SIP CoS Value:
RTP TOS/DiffServ Value: RTP CoS Value:
Network Jitter Level: Jitter Buffer Adjustment:

SIP Settings

SIP Port: SIP 100REL Enable:
EXT SIP Port: Auth Resync-Reboot:
SIP Proxy-Require: SIP Remote-Party-ID:
Referor Bye Delay: Refer-To Target Contact:
Referee Bye Delay: SIP Debug Option:
Refer Target Bye Delay: Sticky 183:

Call Feature Settings

Blind Attn-Xfer Enable: MOH Server:
Message Waiting: Auth Page:
Default Ring: Auth Page Realm:
Conference Bridge URL: Auth Page Password:
Mailbox ID: Voice Mail Server:
State Agent: CFWD Notify Serv:
CFWD Notifier:

Proxy and Registration			
Proxy:	<input type="text" value="sip.sezampro.rs"/>	Use Outbound Proxy:	<input type="text" value="no"/>
Outbound Proxy:	<input type="text"/>	Use OB Proxy In Dialog:	<input type="text" value="yes"/>
Register:	<input type="text" value="yes"/>	Make Call Without Reg:	<input type="text" value="no"/>
Register Expires:	<input type="text" value="3600"/>	Ans Call Without Reg:	<input type="text" value="no"/>
Use DNS SRV:	<input type="text" value="no"/>	DNS SRV Auto Prefix:	<input type="text" value="no"/>
Proxy Fallback Intvl:	<input type="text" value="3600"/>	Proxy Redundancy Method:	<input type="text" value="Normal"/>
Subscriber Information			
Display Name:	<input type="text" value="Vase Ime i Prezime"/>	User ID:	<input type="text" value="Vas User ID"/>
Password:	<input type="text" value="Vas Password"/>	Use Auth ID:	<input type="text" value="no"/>
Auth ID:	<input type="text"/>		
Mini Certificate:	<input type="text"/>		
SRTP Private Key:	<input type="text"/>		
Audio Configuration			
Preferred Codec:	<input type="text" value="G711a"/>	Use Pref Codec Only:	<input type="text" value="no"/>
G729a Enable:	<input type="text" value="yes"/>	G723 Enable:	<input type="text" value="yes"/>
G726-16 Enable:	<input type="text" value="yes"/>	G726-24 Enable:	<input type="text" value="yes"/>
G726-32 Enable:	<input type="text" value="yes"/>	G726-40 Enable:	<input type="text" value="yes"/>
Release Unused Codec:	<input type="text" value="yes"/>	DTMF Process AVT:	<input type="text" value="yes"/>
Silence Supp Enable:	<input type="text" value="no"/>	DTMF Tx Method:	<input type="text" value="Auto"/>
Dial Plan			
Dial Plan:	<input type="text" value="(*8 *xx 1xxx. 2xx 3xxx 4xxx** 4xxx* 4xxx. 55xxxx 5[0-46-9]xx 7x 8xx"/>		
Enable IP Dialing:	<input type="text" value="no"/>		
<input type="button" value="Undo All Changes"/>		<input type="button" value="Submit All Changes"/>	

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Nakon izvršenih promena potrebno je kliknuti na **Submit All Changes**