

Sipura SPA-2002

Configuration Guide

OUTBOUND CALLING

Version 2.0

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Sipura SPA-2002 Installation Guide
Version 2.0

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1 Introduction

This document is a configuration guide for the Sipura SPA-2002. Your SPA-2002 device must have firmware version 3.1.20 configured on it in order to complete calls on the network. Please obtain the latest firmware from www.sipura.com. This guide provides instructions for configuring of device settings for easy access to the calling network.

2 Accessing the SPA-2002

To access the SPA-2002:

1. Connect an analog phone to the Phone 1 port on the SPA-2002.
2. Using the telephone keypad, press the star key (*) four (4) times: ********.
You will be prompted to enter a code.
3. Enter 110# to obtain the IP address the SPA-2002 obtained via DHCP. If you are using a Static IP Address enter the appropriate code, followed by the pound (#) key. Refer to the **SPA2002 Menu Options** table on the following page for codes.

SPA-2002 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.
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.

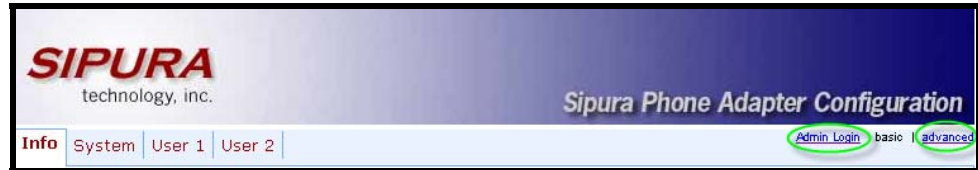
SPA-2002 Menu Options

3. Configuration

3.1 Configuration for Outbound Calling

To configure the SPA-2002 for outbound calling:

1. Connect to the SPA-2002 by entering the device's IP address in the Web browser's **Address** bar. For instructions on obtaining the IP address, refer to section **2.0 Accessing the SPA-2002** in Section 2.0 of this Guide.
2. Click on the **Admin Login** link in the upper right corner of the page, and then click the **advanced** configuration link.



SPA-2002 Web Interface – Main Window

3. 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

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

Field	Value
Proxy	byod1.net2phone.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

5. In the *Subscriber Information* section (as shown in the Line1/2 Window screen on the following page), enter a **Display Name**. 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

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

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

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

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Sipura Phone Adapter Configuration

Info | System | SIP | Provisioning | Regional | **Line 1** | Line 2 | User 1 | User 2 | [User Login](#) | [basic](#) | [advanced](#)

Line Enable:

Streaming Audio Server (SAS)

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: Jitter Buffer Adjustment:

SIP Settings

SIP Port: SIP 100REL Enable:

EXT SIP Port: Auth Resync-Reboot:

SIP Proxy-Require: SIP Remote-Party-ID:

SIP Debug Option: RTP Log Intvl:

Restrict Source IP: Referor Bye Delay:

Refer Target Bye Delay: Referee Bye Delay:

Refer-To Target Contact: Sticky 183:

Call Feature Settings

Blind Attn-Xfer Enable: MOH Server:

Xfer When Hangup Conf: Conference Bridge URL:

Conference Bridge Ports:

NAT Settings and Network Settings and SIP Settings and Call Feature Settings Sections

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: Proxy Redundancy Method:

Subscriber Information

Display Name: User ID:

Password: Use Auth ID:

Auth ID:

Mini Certificate:

SRTP Private Key:

Supplementary Service Subscription

Call Waiting Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>	Block CID Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>
Block ANC Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>	Dist Ring Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>
Cfwd All Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>	Cfwd Busy Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>
Cfwd No Ans Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>	Cfwd Sel Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>
Cfwd Last Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>	Block Last Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>
Accept Last Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>	DND Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>
CID Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>	CWCID Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>
Call Return Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>	Call Back Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>
Three Way Call Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>	Three Way Conf Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>
Attn Transfer Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>	Unattn Transfer Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>
MWI Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>	VMWI Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>
Speed Dial Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>	Secure Call Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>
Referral Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>	Feature Dial Serv:	<input type="button" value="yes"/> <input type="button" value="v"/>

Proxy and Registration Subscriber Information and Supplementary Service Subscription Settings Sections

8. Scroll to the *Audio Configuration* section (as shown in the Audio Configurations and Dial Plan Sections screen on the following page), and change the following settings:

Field	Value
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
DTMF Tx Method	AVT

Audio Configuration	
Preferred Codec:	G729a
Use Pref Codec Only:	no
G729a Enable:	yes
G723 Enable:	no
G726-16 Enable:	no
G726-24 Enable:	no
G726-32 Enable:	no
G726-40 Enable:	no
DTMF Process INFO:	yes
DTMF Process AVT:	yes
DTMF Tx Method:	AVT
Hook Flash Tx Method:	None
Release Unused Codec:	yes
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 Codec Symmetric:	yes
FAX Passthru Method:	NSE
FAX Process NSE:	yes
FAX Disable ECAN:	no
Dial Plan	
Dial Plan:	(*xx [3469]11 0 00 [2-9]xxxxxx 1xxx[2-9]xxxxxxS0 xxxxxxxxxxxxxx.)
Enable IP Dialing:	no
Emergency Number:	
FXS Port Polarity Configuration	
Idle Polarity:	Forward
Caller Conn Polarity:	Forward
Callee Conn Polarity:	Forward
<input type="button" value="Undo All Changes"/> <input type="button" value="Submit All Changes"/>	

Audio Configuration and Dial Plan Sections

9. Click the **Submit All Changes** button to save the settings.