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Sipura SPA-841 Web Interface User Guide

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Preface

This document describes how to configure Sipura's SPA-841 VoIP phone via the SPA-841's web interface. It is not intended to be an authoritative guide on the full use of the SPA-841. However it is intended to bridge the gap with Sipura's existing documentation, which both currently do not adequately cover the SPA-841's web interface.

This document has been developed in the author's spare time with no cost to anyone other than the author's time. It is an ongoing draft document, and you are encouraged to check back regularly at the following URL to see if a newer revision of this document exists:

http://www.robertwisbey.com/sipura-spa-841_installation_configuration_user_guide.html

If you would like to help the author maintain this document so that it can mature into a guide that covers multiple aspects of the SPA-841 and multiple SIP provider configuration information, then please feel free to contact him via his website.

Intended readers

This document is intended for people who have already purchased the SPA-841 and who are reasonably familiar with computing in a home and/or small office environment.

Structure of this document

This document comprises of the following sections:

- **Accessing the SPA-841 Web Interface**
Provides information on how to access the SPA-841 web interface and describes the general use of the SPA-841's web interface.
- **VoIPTalk Configuration**
Describes how to configure the SPA-841 to work with VoIPTalk.
- **Glossary**
Summarises the glossary of terms used throughout this document

Associated documents

This document refers to the following Sipura document:

- *SPA-841 User Guide*
- *SPA-841 Quick Start*

About the Author

Robert Wisbey is a freelance technical author based in Nantes, France. He is an extremely flexible individual, who is willing to travel to client's sites all over Europe. Robert decided to write this document after having some teething problems getting his own SPA-841 to correctly operate with various SIP providers. After a day of experimenting with the SPA-841 and finally getting it to work correctly, Robert decided to write this document so that other users of the SPA-841 can administer their SPA-841 with ease.

Documentation conventions

The following conventions are used in the text of this document to distinguish particular types of information.

Special emphasis in text

The following table shows the types of emphasis used to distinguish particular elements in the text of this document.

Font Convention	Identifies
Bold	Command names, variable values, field values and executables.
<i>Italic</i>	File names, pathnames, variable names, field names and references to other documents.
Monospace	File contents, program output and code examples.
Monospace Bold	Commands and text that users are instructed to enter at the keyboard.

Mouse Buttons

It is assumed that the left mouse button is the primary one.

User interface conventions

The following conventions are used:

- All button options are represented with the word on the button in bold font. For example, the Next button is represented as **Next**.
- All menu options are represented with the option name in bold. For example, the Connect option is represented as **Connect**.
- When an instruction to select a menu option is given, the path to the menu option will be represented with the menu options in **bold** typeface and each level separated by an arrow (→). For example, to select the Open command from the File menu you will be instructed to select the **File →Open** command.

Entering and typing

Depending on the situation, you may be instructed to type or enter a command or string of text. When you are required to press the return key after typing a command or string of text, the actual command or string of text is prefixed by enter or entering. For example, in a command line interface (CLI) you are instructed as follows:

Move to the temp directory by entering:

```
cd temp
```

In some cases you are not required to press the return key after typing a command or string of text, for example:

- field entries in a graphical user interface (GUI)
- typing text on a mobile phone
- typing a menu option in a CLI which does not require you to press the return key.

In these cases you are instructed to type the appropriate command or string of text. For example, to enter your name in a GUI field you are instructed as follows:

Type your first name in the **First Name** field.

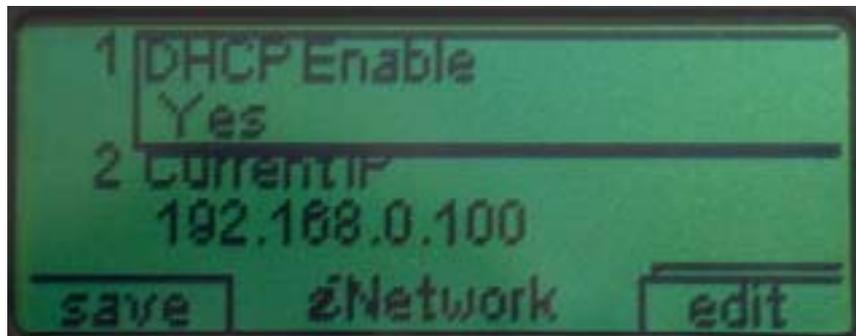
1 Accessing the SPA-841 Web Interface

Once you have connected your SPA-841 to your broadband Internet router and you have powered it up, it should automatically obtain an IP address from your broadband router's DHCP server process. The IP address that the SPA-841 gets depends on the DHCP settings of your broadband router.

1.1 Determining the current IP Address of the SPA-841

In order to access the SPA-841's web interface you need to know its current IP Address within your local area network (LAN). Use the following steps to determine the current IP Address of the SPA-841.

1. Press the **/** button on the bottom right of the SPA-841's keypad.
A numeric menu appears on the SPA-841 display.
2. Press the **9** button on the SPA-841's keypad.
The network menu appears on the SPA-841 display similar to the following.



3. Make a mental note of the value specified below **2 CurrentIP**. In our example, in the figure above the SPA-841's current IP Address is 192.168.0.100.
4. Press the **/** button on the bottom right of the SPA-841's keypad to quit the network menu and return to the SPA-841's default display.

You should be aware that the IP address of your SPA-841 may vary with time. If you never turn off or reboot your broadband Internet router or SPA-841 then the SPA-841 should retain its current IP address. If however, you disconnect, power down or reboot either your broadband Internet router or SPA-841, then the SPA-841 could obtain a different IP Address the next time it connects to your broadband Internet router.

Tip: Most modern broadband Internet routers allow you to configure their DHCP server settings so that the Media Access Control (MAC) address of each DHCP client (e.g. PC, network enabled printer, VoIP phone) obtains the same IP address. Each network enabled device (known as a DHCP client in DHCP networks) has a unique MAC address that never changes. If you want the SPA-841 to obtain the same IP Address every time it connects to your broadband Internet router you can specify the SPA-841's MAC address in the appropriate section of your Internet router's DHCP server settings. The SPA-841's MAC address can be found on the label on the base of the SPA-841 unit.

1.2 Web Browser Cache Settings

When the SPA-841 is shipped there are no passwords set to access its web interface. If you never want to set user or admin passwords for the SPA-841 then you do not need to undertake the steps in the section to configure your Browser's cache settings. If however you want to set password access to the SPA-841 then you must ensure that your Browsers cache settings are configured as described in this section.

Different cache settings affect how settings are applied to the SPA-841 when passwords are in effect. For example, if your browser is currently set to check for newer versions of the page on every visit to the page, then the password is not applied and upon attempting to apply the settings and you will never be

able to update your SPA-841's configuration. Therefore, if you plan on setting password access to the SPA-841 then you must ensure that your Browsers cache settings are configured as described in this section.

If you are using Internet Explorer, use the following steps to configure the cache to automatic.

1. From the Internet Explorer main window, select **Tools** → **Internet Options**.

An **Internet Options** dialogue box similar to the following appears.



2. Ensure that the **General** tab is enabled, and click the **Settings...** button.

A **Settings** dialogue box appears.



3. Ensure that the **Automatically** radio button is enabled, and click the **OK** button.

You are returned to the **Internet Options** dialogue box.

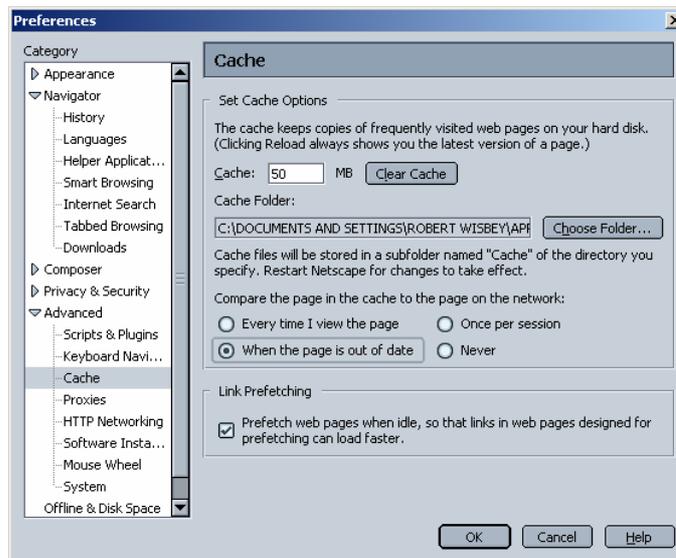
4. Click the **OK** button to continue.

You are returned to the Internet Explorer main window and are ready to access the SPA-841 web interface.

If you are using Netscape Navigator or Mozilla, use the following steps to configure the cache to "when the page is out of date".

1. From the Netscape Navigator or Mozilla main window, select **Edit** → **Preferences...**

A **Preferences** dialogue box similar to the following appears.



2. Expand the **Advanced** option and click on the **Cache** item so that it appears in inverse video. The cache options are displayed in the right hand side of the **Properties** dialogue box.
3. Ensure that the **When the page is out of date** radio button is enabled, and click the **OK** button. You are returned to the Netscape Navigator or Mozilla main window and are ready to access the SPA-841 web interface.

1.3 Accessing the SPA-841 Web Interface

Use the following steps to access the access the SPA-841 web interface.

1. Open your preferred Web browser, and specify the following URL:
http://<current IP Address of SPA-841>
 where <current IP Address of SPA-841> is the current IP Address of the SPA-841, which you have previously determined according to "Determining the current IP Address of the SPA-841" on page 7.
2. If you have previously specified passwords to access the SPA-841 then a dialogue box similar to the following appears, and you must perform the following sub-steps to login. Otherwise, you are automatically taken to an **Info** page similar to Figure 1.



- a. Type your either admin or user in the **Username** field.
- b. Type an appropriate password in the **Password** field.
- c. Click the **OK** button.
 The SPA-841 web interface **Info** page appears (Figure 1).

SIPURA
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Sipura Telephone Configuration

Info

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

System Information

DHCP:	Enabled	Current IP:	192.168.0.100
Host Name:	SipuraSPA	Domain:	
Current Netmask:	255.255.255.0	Current Gateway:	192.168.0.1
Primary DNS:	192.168.0.1		
Secondary DNS:			

Product Information

Product Name:	SPA-841	Serial Number:	88012FA04298
Software Version:	0.9.5	Hardware Version:	1.0.0(1205)
MAC Address:	000E08DAEF35	Client Certificate:	Installed
Customization:	Not Customized		

Phone Status

Current Time:	2/9/2005 22:36:28	Elapsed Time:	00:00:05
Broadcast Pkts Sent:	0	Broadcast Bytes Sent:	0
Broadcast Pkts Recv:	0	Broadcast Bytes Recv:	0
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:	2	SIP Bytes Sent:	946
SIP Messages Recv:	2	SIP Bytes Recv:	702
External IP:			

Ext 1 Status

Registration State:	Registered	Last Registration At:	2/9/2005 22:36:23
Next Registration In:	22 s	Message Waiting:	No
Mapped SIP Port:			

Ext 2 Status

Registration State:	Registered	Last Registration At:	2/9/2005 22:36:23
Next Registration In:	23 s	Message Waiting:	No
Mapped SIP Port:			

Call 1 Status

Line State:	Idle	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

Line State:	Idle	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

[Admin Login](#) | [basic](#) | [advanced](#)

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Figure 1 The SPA-841 web interface's "Info" page

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Rev 0.1

The hyperlinks that appear at the top-right of the SPA-841 web interface allow you to access various aspects of SPA-841 web interface. These hyperlinks are summarised in Table 1.

Hyperlink	Description
Admin Login or User Login	Toggles between the administration pages that allow you to configure the SPA-841 and the basic user page that shows the SPA-841 information. When you initially log into the SPA-841 the user view is shown. You need to click on the Admin Login hyperlink to access the administration pages so that you can configure the SPA-841.
basic and advanced	Toggles between the basic and advanced views. When you initially log into the SPA-841 the basic view is in effect. When viewing the SPA-841's administration pages, the advanced view contains many more fields than the basic view. Typically, you will need to enable the advanced view in order to completely configure the SPA-841.
Personal Directory	Opens a new browser with a page containing up to 100 directory entries.
Call History	Opens a new browser with a page links that allow you to view missed calls, dialled calls and received calls.

Table 1 SPA-841 Web Interface Hyperlinks

Upon clicking the **Admin Login** hyperlink, the SPA-841 web interface updates with a number of different horizontal tabs, which appear to the right of the **Info** tab (see Figure 2).

The screenshot shows the SIPURA SPA-841 web interface. At the top left is the SIPURA logo with 'technology, inc.' below it. At the top right is the title 'Sipura Telephone Configuration'. Below the title is a navigation bar with tabs: Info, System, SIP, Regional, Phone, Ext 1, Ext 2, Ext 3, Ext 4, and User. On the right side of the navigation bar, there are links for User Login, basic, advanced, Personal Directory, and Call History. The main content area is divided into sections: System Information, Product Information, and Phone Status. Each section contains various status and configuration details.

Figure 2 The SPA-841 web interface admin menu items (referred to as tabs)

Clicking on an appropriate horizontal tab highlights that tab in white and the items associated to that tab are displayed in the page below within the main area of your web browser. These different tabs (pages) are summarised in Table 1.

Tab (Page)	Description
Info	Initially appears when you access the SPA-841 web interface. Visible to both types of user (i.e. admin and user). Displays general system information such as the SPA-841's current IP address and the current network status of each incoming line (SIP account).
System	<p>Only visible when logged in as an admin user (i.e. when the Admin Login has been clicked).</p> <p>Determines the SPA-841's:</p> <ul style="list-style-type: none"> • current network configuration (e.g. whether the SPA-841 obtains its IP address automatically via DHCP or whether the IP address is static) • web server configuration (e.g. the listen port of the SPA-841 web interface and whether it is enabled or disabled) • passwords associated with the admin and user accounts (by default these are disabled) • network time protocol (NTP) servers <p>Typically, nothing needs to be changed from the default settings. However, it is useful to specify an NTP server so the SPA-841's current time is always correct.</p>
SIP	<p>Only visible when logged in as an admin user (i.e. when the Admin Login has been clicked).</p> <p>Determines general aspects of the SPA-841's session initiation protocol (SIP) settings. Typically, the majority of the default settings never need to be changed. However, if your SIP provider (for example, SIPPhone) uses a STUN Server, then this page allows you to enable and define the STUN Server.</p>
Provisioning	<p>Only visible when logged in as an admin user (i.e. when the Admin Login has been clicked).</p> <p>Determines various provisioning aspects of the SPA-841. Typically, the majority of the default settings never need to be changed. From this page you can specify an appropriate license key to upgrade your SPA-841 from 2 to 4 incoming lines.</p>
Regional	<p>Only visible when logged in as an admin user (i.e. when the Admin Login has been clicked).</p> <p>Determines various regional aspects of the SPA-841. Typically, the majority of the default settings never need to be changed. However, if you have specified an NTP server the appropriate time zone should be selected from the Time Zone drop-down field.</p>

Tab (Page)	Description
Phone	<p>Only visible when logged in as an admin user (i.e. when the Admin Login has been clicked).</p> <p>Determines various aspects of the SPA-841 phone itself, such as the SPA-841's:</p> <ul style="list-style-type: none"> • voice mail number used to retrieve your messages (if supported by your SIP provider) • line key extension values (the default values need to be changed as described in "Line Key Extension Settings" on page 15) • 10 ringtones
Ext 1	<p>Only visible when logged in as an admin user (i.e. when the Admin Login has been clicked).</p> <p>Configures the SIP account details for the SPA-841's first incoming line, such as:</p> <ul style="list-style-type: none"> • whether the first line is enable or disabled • whether the first line's SIP account uses NAT traversal or not • the SIP port for the first incoming line (usually 5060) • the SIP proxy details for the first incoming line • the SIP login details for the first incoming line • the dial plan used by the first incoming line's SIP account <p><i>Note:</i> The default dial plan specified by the SPA-841 may not work with your SIP provider and may need changing. If you can receive calls and are successfully logged in to your SIP account, but the SPA-841 immediately hangs up the call on pressing a number, then dial plan needs changing.</p>
Ext 2	<p>Only visible when logged in as an admin user (i.e. when the Admin Login has been clicked).</p> <p>Configures the SIP account details for the SPA-841's second incoming line, such as:</p> <ul style="list-style-type: none"> • whether the second line is enable or disabled • whether the second line's SIP account uses NAT traversal or not • the SIP port for the second incoming line (usually 5060) • the SIP proxy details for the second incoming line • the SIP login details for the second incoming line • the dial plan used by the second incoming line's SIP account <p><i>Note:</i> The default dial plan specified by the SPA-841 may not work with your SIP provider and may need changing. If you can receive calls and are successfully logged in to your SIP account, but the SPA-841 immediately hangs up the call on pressing a number, then dial plan needs changing.</p>

Tab (Page)	Description
Ext 3	<p>Only visible when logged in as an admin user (i.e. when the Admin Login has been clicked) and when 4 incoming lines are enabled.</p> <p>Configures the SIP account details for the SPA-841's third incoming line, such as:</p> <ul style="list-style-type: none"> • whether the third line is enable or disabled • whether the third line's SIP account uses NAT traversal or not • the SIP port for the third incoming line (usually 5060) • the SIP proxy details for the third incoming line • the SIP login details for the third incoming line • the dial plan used by the third incoming line's SIP account <p><i>Note:</i> The default dial plan specified by the SPA-841 may not work with your SIP provider and may need changing. If you can receive calls and are successfully logged in to your SIP account, but the SPA-841 immediately hangs up the call on pressing a number, then dial plan needs changing.</p>
Ext 4	<p>Only visible when logged in as an admin user (i.e. when the Admin Login has been clicked) and when 4 incoming lines are enabled.</p> <p>Configures the SIP account details for the SPA-841's fourth incoming line, such as:</p> <ul style="list-style-type: none"> • whether the fourth line is enable or disabled • whether the fourth line's SIP account uses NAT traversal or not • the SIP port for the fourth incoming line (usually 5060) • the SIP proxy details for the fourth incoming line • the SIP login details for the fourth incoming line • the dial plan used by the fourth incoming line's SIP account <p><i>Note:</i> The default dial plan specified by the SPA-841 may not work with your SIP provider and may need changing. If you can receive calls and are successfully logged in to your SIP account, but the SPA-841 immediately hangs up the call on pressing a number, then dial plan needs changing.</p>
User	<p>Only visible when logged in as an admin user (i.e. when the Admin Login has been clicked).</p> <p>Determines various user aspects of the SPA-841 phone itself, such as the SPA-841's:</p> <ul style="list-style-type: none"> • call forwarding configuration • speed dial numbers • preferred audio device • ringer, speaker, headset and handset volume

Table 2 SPA-841 Web Interface Tabs (Pages)

At the bottom of every page exists an **Undo All Changes** button and **Submit All Changes** button. Clicking the **Undo All Changes** button will undo all the changes that have been made on any of the administration pages during an existing session. Clicking the **Submit All Changes** button will submit all the changes that have been made on any of the administration pages during an existing session and reboot the SPA-841 so that the new setting take effect.

1.4 Line Key Extension Settings

The SPA-841 is supplied with either two or four incoming lines. Each incoming line has a line key extension value, which can be found in the **Phone** section of the administration pages. The default values for all of the incoming line key extensions is incorrectly set to **1** as shown in Figure 3.

The screenshot shows the 'Sipura Telephone Configuration' web interface. The 'Phone' tab is selected, and the 'Extension' dropdown menus for Line Key 1, 2, 3, and 4 are all set to '1'. The 'Share Call Appearance' dropdowns are set to 'no'. The 'Short Name' fields are empty.

Figure 3 Default "Phone" settings with incorrect Line Key Extension values

If you plan on configuring the additional incoming lines, then default **Extension** settings for the additional lines need to be changed so that **Line Key 2**, **Line Key 3** and **Line Key 4** lines work correctly. The options available to each of the **Extension** drop-down fields are 1, 2, 3, 4 and Disabled. If you are not using a certain incoming line then you should set the appropriate line key's **Extension** drop-down field value to Disabled. If you plan on using some or all of the incoming lines, then you should ensure that each of the line key extension values are set according to that in Table 3.

Line Key	Correct Value
Line Key 1	1 if you plan to use the first incoming line. Disabled if you do not plan to use the first incoming line.
Line Key 2	2 if you plan to use the second incoming line. Disabled if you do not plan to use the second incoming line.
Line Key 3	3 if you plan to use the third incoming line. Disabled if you do not plan to use the third incoming line.
Line Key 4	4 if you plan to use the fourth incoming line. Disabled if you do not plan to use the fourth incoming line.

Table 3 Correct Line Key Extension Values

Figure 4 shows an example of the correct line key extension settings for a SPA-841 using all of its incoming lines.

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Sipura Telephone Configuration

Info System SIP Provisioning Regional **Phone** Ext 1 Ext 2 Ext 3 Ext 4 User

User Login basic | advanced
Personal Directory Call History

General
Station Name: Voice Mail Number:
Text Logo:

Line Key 1
Extension: Short Name:
Share Call Appearance:

Line Key 2
Extension: Short Name:
Share Call Appearance:

Line Key 3
Extension: Short Name:
Share Call Appearance:

Line Key 4
Extension: Short Name:
Share Call Appearance:

Line Key LED Pattern

Figure 4 “Phone” settings with correct Line Key Extension values

1.4.1 Setting the correct line key extension values

Use the following steps to configure your SPA-841 line key extension values with the correct values.

1. Access the SPA-841 web interface according to “Accessing the SPA-841 Web Interface” on page 9.
The **Info** page appears in the SPA-841 web interface.
2. Click the **Admin Login** hyperlink.
A number of different tabs appear to the right of the **Info** tab.
3. Click the **Phone** tab.
The **Phone** page appears in the SPA-841 web interface.
4. From the **Extension** drop-down field under the **Line Key 1** heading, select **1** if you intend the first line to be enabled or **Disabled** if you intend the first line to be disabled.
5. From the **Extension** drop-down field under the **Line Key 2** heading, select **2** if you intend the second line to be enabled or **Disabled** if you intend the second line to be disabled.
6. From the **Extension** drop-down field under the **Line Key 3** heading, select **1** if you intend the third line to be enabled or **Disabled** if you intend the third line to be disabled.
7. From the **Extension** drop-down field under the **Line Key 4** heading, select **1** if you intend the fourth line to be enabled or **Disabled** if you intend the fourth line to be disabled.
8. Scroll down to the bottom of the **Phone** page and click the **Submit All Changes** button.
The SPA-841 reboots over a period of approximately 5 seconds, and the changes to each of the line extensions are now active.

2 VoIPTalk Configuration

This chapter describes how to configure the SPA-841 with the VoIPTalk (<http://www.voiptalk.org>) SIP provider.

2.1 Prerequisites

Before undertaking the procedures in this chapter, you must ensure that you have already set up your SPA-841 so that its line key extension values are correctly configured. For more information, refer to “Line Key Extension Settings” on page 15.

2.2 Summary of VoIPTalk Settings

For VoIPTalk, you need to define the following SIP parameters for each extension that you use with VoIPTalk:

- SIP Port (**5060** for **Ext 1**, **5061** for **Ext 2**, **5062** for **Ext 3** and **5063** for **Ext 4**)
- SIP Proxy (always **voiptalk.org**)
- Outbound SIP proxy (always **nat.voiptalk.org:5065**)
- SIP number (a unique SIP number based on your VoIPTalk account)
- SIP password (a unique password associated to your SIP number)

You must also make sure that for each extension that uses a VoIPTalk SIP account that:

- Network Address Translation (NAT) is disabled (i.e. the **NAT Mapping Enable** and **NAT Keep Alive Enable** drop-down fields are set to **no**)
- Use of an outbound proxy is enabled (i.e. the **Use Outbound Proxy** drop-down fields is set to **yes**)

Finally, for each extension that uses a VoIPTalk SIP account you must also ensure that the dial plan used is **([*x][*x]x.)** rather than the default provided by the SPA-841.

Note 1: For each extension you configure (i.e. Ext 1, Ext 2, Ext 3, Ext 4) you must ensure that you specify a different SIP number.

Note 2 : The procedure in this chapter includes steps how to configure the third and fourth incoming lines, which may not be available if your SPA-841 is the 2-line version.

Figure 5 shows an example of how extension 1 is configured to use VoIPTalk’s service with a SIP number of **83318526**.


Sipura Telephone Configuration

Info System SIP Provisioning Regional Phone Ext 1 Ext 2 Ext 3 Ext 4 User

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

General

Line Enable: Share Ext:

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:

SIP Settings

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

Call Feature Settings

Blind Attn-Xfer Enable: MOH Server:
 Message Waiting: Auth Page:
 Default Ring: Auth Page Realm:
 Conference Bridge URL: Auth Page Password:

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:

Subscriber Information

Display Name: User ID:
 Password: Use Auth ID:
 Auth ID:
 Mini Certificate:
 SRTP Private Key:

Audio Configuration

Preferred Codec: Use Pref Codec Only:
 G729a Enable: G723 Enable:
 G726-16 Enable: G726-24 Enable:
 G726-32 Enable: G726-40 Enable:
 Release Unused Codec: DTMF Process AVT:
 Silence Supp Enable: DTMF Tx Method:

Dial Plan

Dial Plan:
 Enable IP Dialing:

[User Login](#) | [basic](#) | [advanced](#)

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Figure 5 Example of a VoIPTalk account configuration

2.3 Configuring the SPA-841 with VoIPTalk

This procedure assumes that you are configuring all of the SPA-841 incoming lines with the VoIPTalk service. If you are configuring your SPA-841 with other SIP providers then simply undertake the steps defined by the if/then tables with this procedure.

Use the following steps to configure one or more extensions with the VoIPTalk service.

1. Access the SPA-841 web interface according to “Accessing the SPA-841 Web Interface” on page 9.
2. Click the **Admin Login** hyperlink.
A number of different tabs appear to the right of the **Info** tab.
3. Click the **Advanced** hyperlink.
4. The different tabs will now contain the additional advanced fields (which are required when configuring the SPA-841).

Determine your next step.

If you want to	Then go to:
configure the first incoming line	step 5
configure the second incoming line	step 15
configure the second incoming line	step 25
configure the second incoming line	step 35
not configure any further incoming lines	step 45

Configure the first extension

5. Click the **Ext 1** tab.
The **Ext 1** page appears in the SPA-841 web interface.
6. Ensure that the **Line Enable** drop-down field is set to **yes** and that the **Share ext** drop-down field is set to **no**, as follows.

General
Line Enable: Share Ext:

7. Ensure that the **NAT Mapping Enable** drop-down **NAT Keep Alive Enable** drop-down field is set to **no**, as follows. Leave the values for the **NAT Keep Alive Msg** and **NAT Keep Alive Dest** fields unchanged with their default values of **\$NOTIFY** and **\$PROXY** respectively.

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

8. Leave the values within the **Network Settings** section unchanged from their default values, as follows.

Network Settings
SIP TOS/DiffServ Value: Network Jitter Level:
RTP TOS/DiffServ Value:

9. Ensure that the **SIP Port** field contains the value **5060** and leave all the other **SIP Settings** values to their default values as follows.

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:

10. Leave the values within the **Call Feature Settings** section unchanged from their default values, as follows.

Call Feature Settings			
Blind Attn-Xfer Enable:	<input type="text" value="no"/>	MOH Server:	<input type="text"/>
Message Waiting:	<input type="text" value="no"/>	Auth Page:	<input type="text" value="no"/>
Default Ring:	<input type="text" value="1"/>	Auth Page Realm:	<input type="text"/>
Conference Bridge URL:	<input type="text"/>	Auth Page Password:	<input type="text"/>

11. Within the **Proxy and Registration** section:
- Type **voiptalk.org** in the **Proxy** field.
 - Type **nat.voiptalk.org:5065** in the **Outbound Proxy** field.
 - Select **yes** from the **Use Outbound Proxy** drop-down field.

Leave the other settings to their default values as follows.

Proxy and Registration			
Proxy:	<input type="text" value="voiptalk.org"/>	Use Outbound Proxy:	<input type="text" value="yes"/>
Outbound Proxy:	<input type="text" value="nat.voiptalk.org:5065"/>	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"/>		

12. Within the **Proxy and Registration** section:
- Type an appropriate name (e.g. Robert Wisbey) in the **Display Name** field. This as many alphanumeric characters as you want and can contain spaces. The name you specify will be displayed on the recipient's VoIP device when you place a call.
 - Type your primary VoIPTalk SIP number (e.g. 83318526) in the **User ID** field.
 - Select your primary VoIPTalk SIP number's associated password in the **Password** field.
 - Leave the other settings to their default values (i.e. the **Use Auth ID** drop-down field set to **no**, and the **Auth ID**, **Mini Certificate** and **SRTP Private Key** fields blank), as follows.

Subscriber Information			
Display Name:	<input type="text" value="Robert Wisbey"/>	User ID:	<input type="text" value="83318526"/>
Password:	<input type="text" value="*****"/>	Use Auth ID:	<input type="text" value="no"/>
Auth ID:	<input type="text"/>		
Mini Certificate:	<input type="text"/>		
SRTP Private Key:	<input type="text"/>		

13. Leave the values within the **Audio Configuration** section unchanged from their default values, as follows.

Audio Configuration			
Preferred Codec:	<input type="text" value="G711u"/>	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"/>

14. Within the **Dial Plan** section:
- Type **([*x][*x]x.)** in the **Dial Plan** field.
 - Leave the **Enable IP Dialing** drop-down field set to **no**, as follows.

Dial Plan	
Dial Plan:	<input type="text" value="([*x][*x]x.)"/>
Enable IP Dialing:	<input type="text" value="no"/>

Determine your next step.

If you want	Then go to:
configure the first incoming line	step 5
configure the second incoming line	step 15
configure the second incoming line	step 25
configure the second incoming line	step 35
not configure any further incoming lines	step 45

Configure the second extension

15. Click the **Ext 2** tab.

The **Ext 2** page appears in the SPA-841 web interface.

16. Ensure that the **Line Enable** drop-down field is set to **yes** and that the **Share ext** drop-down field is set to **no**, as follows.

General

Line Enable: Share Ext:

17. Ensure that the **NAT Mapping Enable** drop-down **NAT Keep Alive Enable** drop-down field is set to **no**, as follows. Leave the values for the **NAT Keep Alive Msg** and **NAT Keep Alive Dest** fields unchanged with their default values of **\$NOTIFY** and **\$PROXY** respectively.

NAT Settings

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

18. Leave the values within the **Network Settings** section unchanged from their default values, as follows.

Network Settings

SIP TOS/DiffServ Value: Network Jitter Level:
 RTP TOS/DiffServ Value:

19. Ensure that the **SIP Port** field contains the value **5061** and leave all the other **SIP Settings** values to their default values as follows.

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:

20. Leave the values within the **Call Feature Settings** section unchanged from their default values, as follows.

Call Feature Settings

Blind Attn-Xfer Enable: MOH Server:
 Message Waiting: Auth Page:
 Default Ring: Auth Page Realm:
 Conference Bridge URL: Auth Page Password:

21. Within the **Proxy and Registration** section:

- Type **voiptalk.org** in the **Proxy** field.
- Type **nat.voiptalk.org:5065** in the **Outbound Proxy** field.
- Select **yes** from the **Use Outbound Proxy** drop-down field.

Leave the other settings to their default values as follows.

Subscriber Information			
Display Name:	Properties In Europe	User ID:	83318527
Password:	*****	Use Auth ID:	no
Auth ID:			
Mini Certificate:			
SRTP Private Key:			

22. Within the **Proxy and Registration** section:

- Type an appropriate name (e.g. Robert Wisbey) in the **Display Name** field. This as many alphanumeric characters as you want and can contain spaces. The name you specify will be displayed on the recipient's VoIP device when you place a call.
- Type your primary VoIPTalk SIP number (e.g. 83318527) in the **User ID** field. This must be a different SIP number that you specified for the first extension.
- Select your primary VoIPTalk SIP number's associated password in the **Password** field.
- Leave the other settings to their default values (i.e. the **Use Auth ID** drop-down field set to **no**, and the **Auth ID**, **Mini Certificate** and **SRTP Private Key** fields blank), as follows.

Subscriber Information			
Display Name:	Robert Wisbey	User ID:	83318526
Password:	*****	Use Auth ID:	no
Auth ID:			
Mini Certificate:			
SRTP Private Key:			

23. Leave the values within the **Audio Configuration** section unchanged from their default values, as follows.

Audio Configuration			
Preferred Codec:	G711u	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

24. Within the **Dial Plan** section:

- Type **([*x][*x]x.)** in the **Dial Plan** field.
- Leave the **Enable IP Dialing** drop-down field set to **no**, as follows.

Dial Plan	
Dial Plan:	([*x][*x]x.)
Enable IP Dialing:	no

Determine your next step.

If you want to	Then go to:
configure the first incoming line	step 5
configure the second incoming line	step 15
configure the second incoming line	step 25
configure the second incoming line	step 35
not configure any further incoming lines	step 45

Configure the third extension

25. Click the **Ext 3** tab.

The **Ext 3** page appears in the SPA-841 web interface.

26. Ensure that the **Line Enable** drop-down field is set to **yes** and that the **Share ext** drop-down field is set to **no**, as follows.

General	
Line Enable:	<input type="text" value="yes"/>
Share Ext:	<input type="text" value="no"/>

27. Ensure that the **NAT Mapping Enable** drop-down **NAT Keep Alive Enable** drop-down field is set to **no**, as follows. Leave the values for the **NAT Keep Alive Msg** and **NAT Keep Alive Dest** fields unchanged with their default values of **\$NOTIFY** and **\$PROXY** respectively.

NAT Settings	
NAT Mapping Enable:	<input type="text" value="no"/>
NAT Keep Alive Enable:	<input type="text" value="no"/>
NAT Keep Alive Msg:	<input type="text" value="\$NOTIFY"/>
NAT Keep Alive Dest:	<input type="text" value="\$PROXY"/>

28. Leave the values within the **Network Settings** section unchanged from their default values, as follows.

Network Settings	
SIP TOS/DiffServ Value:	<input type="text" value="0x68"/>
Network Jitter Level:	<input type="text" value="high"/>
RTP TOS/DiffServ Value:	<input type="text" value="0xb8"/>

29. Ensure that the **SIP Port** field contains the value **5062** and leave all the other **SIP Settings** values to their default values as follows.

SIP Settings	
SIP Port:	<input type="text" value="5062"/>
SIP 100REL Enable:	<input type="text" value="no"/>
EXT SIP Port:	<input type="text"/>
Auth Resync-Reboot:	<input type="text" value="yes"/>
SIP Proxy-Require:	<input type="text"/>
SIP Remote-Party-ID:	<input type="text" value="no"/>
Referor Bye Delay:	<input type="text" value="4"/>
Refer-To Target Contact:	<input type="text" value="yes"/>
Referee Bye Delay:	<input type="text" value="0"/>
SIP Debug Option:	<input type="text" value="none"/>
Refer Target Bye Delay:	<input type="text" value="0"/>

30. Leave the values within the **Call Feature Settings** section unchanged from their default values, as follows.

Call Feature Settings	
Blind Attn-Xfer Enable:	<input type="text" value="no"/>
MOH Server:	<input type="text"/>
Message Waiting:	<input type="text" value="no"/>
Auth Page:	<input type="text" value="no"/>
Default Ring:	<input type="text" value="1"/>
Auth Page Realm:	<input type="text"/>
Conference Bridge URL:	<input type="text"/>
Auth Page Password:	<input type="text"/>

31. Within the **Proxy and Registration** section:
- Type **voiptalk.org** in the **Proxy** field.
 - Type **nat.voiptalk.org:5065** in the **Outbound Proxy** field.
 - Select **yes** from the **Use Outbound Proxy** drop-down field.

Leave the other settings to their default values as follows.

Subscriber Information	
Display Name:	<input type="text" value="Properties In Europe"/>
User ID:	<input type="text" value="83318528"/>
Password:	<input type="text" value="*****"/>
Use Auth ID:	<input type="text" value="no"/>
Auth ID:	<input type="text"/>
Mini Certificate:	<input type="text"/>
SRTP Private Key:	<input type="text"/>

32. Within the **Proxy and Registration** section:
- Type an appropriate name (e.g. Robert Wisbey) in the **Display Name** field. This as many alphanumeric characters as you want and can contain spaces. The name you specify will be displayed on the recipient's VoIP device when you place a call.
 - Type your primary VoIPTalk SIP number (e.g. 83318528) in the **User ID** field. This must be a different SIP number that you specified for the first and second extensions.
 - Select your primary VoIPTalk SIP number's associated password in the **Password** field.

- d. Leave the other settings to their default values (i.e. the **Use Auth ID** drop-down field set to **no**, and the **Auth ID**, **Mini Certificate** and **SRTP Private Key** fields blank), as follows.

Subscriber Information			
Display Name:	Robert Wisbey	User ID:	83318526
Password:	*****	Use Auth ID:	no
Auth ID:			
Mini Certificate:			
SRTP Private Key:			

33. Leave the values within the **Audio Configuration** section unchanged from their default values, as follows.

Audio Configuration			
Preferred Codec:	G711u	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

34. Within the **Dial Plan** section:
- Type **([*x][*x].)** in the **Dial Plan** field.
 - Leave the **Enable IP Dialing** drop-down field set to **no**, as follows.

Dial Plan	
Dial Plan:	([*x][*x].)
Enable IP Dialing:	no

Determine your next step.

If you want to	Then go to:
configure the first incoming line	step 5
configure the second incoming line	step 15
configure the second incoming line	step 25
configure the second incoming line	step 35
not configure any further incoming lines	step 45

Configure the fourth extension

35. Click the **Ext 4** tab.
The **Ext 4** page appears in the SPA-841 web interface.
36. Ensure that the **Line Enable** drop-down field is set to **yes** and that the **Share ext** drop-down field is set to **no**, as follows.

General	
Line Enable:	yes
Share Ext:	no

37. Ensure that the **NAT Mapping Enable** drop-down **NAT Keep Alive Enable** drop-down field is set to **no**, as follows. Leave the values for the **NAT Keep Alive Msg** and **NAT Keep Alive Dest** fields unchanged with their default values of **\$NOTIFY** and **\$PROXY** respectively.

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

38. Leave the values within the **Network Settings** section unchanged from their default values, as follows.

Network Settings	
SIP TOS/DiffServ Value:	0x68
RTP TOS/DiffServ Value:	0xb8
Network Jitter Level:	high

39. Ensure that the **SIP Port** field contains the value **5063** and leave all the other **SIP Settings** values to their default values as follows.

SIP Settings			
SIP Port:	5063	SIP 100REL Enable:	no
EXT SIP Port:		Auth Resync-Reboot:	yes
SIP Proxy-Require:		SIP Remote-Party-ID:	no
Referor Bye Delay:	4	Refer-To Target Contact:	yes
Referee Bye Delay:	0	SIP Debug Option:	none
Refer Target Bye Delay:	0		

40. Leave the values within the **Call Feature Settings** section unchanged from their default values, as follows.

Call Feature Settings			
Blind Attn-Xfer Enable:	no	MOH Server:	
Message Waiting:	no	Auth Page:	no
Default Ring:	1	Auth Page Realm:	
Conference Bridge URL:		Auth Page Password:	

41. Within the **Proxy and Registration** section:
- Type **voiptalk.org** in the **Proxy** field.
 - Type **nat.voiptalk.org:5065** in the **Outbound Proxy** field.
 - Select **yes** from the **Use Outbound Proxy** drop-down field.
- Leave the other settings to their default values as follows.

Subscriber Information			
Display Name:	Properties In Europe	User ID:	83318529
Password:	*****	Use Auth ID:	no
Auth ID:			
Mini Certificate:			
SRTP Private Key:			

42. Within the **Proxy and Registration** section:
- Type an appropriate name (e.g. Robert Wisbey) in the **Display Name** field. This as many alphanumeric characters as you want and can contain spaces. The name you specify will be displayed on the recipient's VoIP device when you place a call.
 - Type your primary VoIPTalk SIP number (e.g. 83318526) in the **User ID** field. This must be a different SIP number that you specified for the first, second and third extensions.
 - Select your primary VoIPTalk SIP number's associated password in the **Password** field.
 - Leave the other settings to their default values (i.e. the **Use Auth ID** drop-down field set to **no**, and the **Auth ID**, **Mini Certificate** and **SRTP Private Key** fields blank), as follows.

Subscriber Information			
Display Name:	Robert Wisbey	User ID:	83318526
Password:	*****	Use Auth ID:	no
Auth ID:			
Mini Certificate:			
SRTP Private Key:			

43. Leave the values within the **Audio Configuration** section unchanged from their default values, as follows.

Audio Configuration			
Preferred Codec:	G711u	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

44. Within the **Dial Plan** section:
- Type **([*x][*x]x.)** in the **Dial Plan** field.
 - Leave the **Enable IP Dialing** drop-down field set to **no**, as follows.



Dial Plan
 Dial Plan: ([*x][*x]x.)
 Enable IP Dialing: no

Determine your next step.

If you want to	Then go to:
configure the second incoming line	step 15
configure the second incoming line	step 25
configure the second incoming line	step 35
not configure any further incoming lines	step 45

Confirm and apply your changes

45. Scroll down to the bottom of the current page and click the **Submit All Changes** button.
 The SPA-841 reboots over a period of approximately 5 seconds, and the changes to each of the line extension's SIP accounts are now active.

3 Glossary

DHCP Dynamic Host Configuration Protocol

IP Internet Protocol

NTP Network Time Protocol

SIP Session Initiation Protocol

URL Uniform Resource Locator

Revision history

Document Title	Owner	Date
Sipura SPA-841 Web Interface User Guide		

Version	Edited by	Date
0.1	Rob Wisbey – new document	Feb 16 th 2005

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