Sipura SPA-2000
Manual Configuration Instructions

Only settings that deviate from factory defaults are included in this document. If your ATA was previously connected to a different service, you will need to use the screenshots to verify that all settings are correct; alternatively, you may reset the ATA to factory defaults (recommended), as described in section 4.

1. Plug in the ATA

Connect a telephone handset, network, and power to the ATA, and wait briefly while it discovers its IP address via DHCP. For more information on connecting your ATA, or to set a Static IP Address manually, please consult your User Manual.

2. Determine the ATA's IP Address

To find out the ATA's IP Address, dial "****", then "110#". Note down the IP Address spoken out and enter it into the address bar of a Web browser.

Example: If the address is "10.34.238.6", enter this as "http://10.24.238.6/".

If the address read out is "0.0.0.0", the ATA was unsuccessful in acquiring an IP address via DHCP -- contact your network administrator before proceeding.

3. Reset the ATA to Factory Defaults (optional).

Note: This will clear all custom settings from the ATA; if you wish to retain these for later reference, please make a note of them (for example, by printing the configuration pages, or saving a copy of them to disk).

To perform the reset, dial "****" on the attached telephone handset, followed by "73738#", then "1" to confirm; then hang up. Once the phone is hung up, the ATA will restart with its settings reset to factory defaults.

4. Configure the ATA via its web interface

Bring up the ATA's Web configuration page, as described in section 2 of this document. Click on "Admin Login", then "advanced". Clicking on each of the System, SIP, Regional, Line 1 and (optionally) Line 2 tabs in turn, make the following changes; click on the "Submit All Changes" button when done with each page:
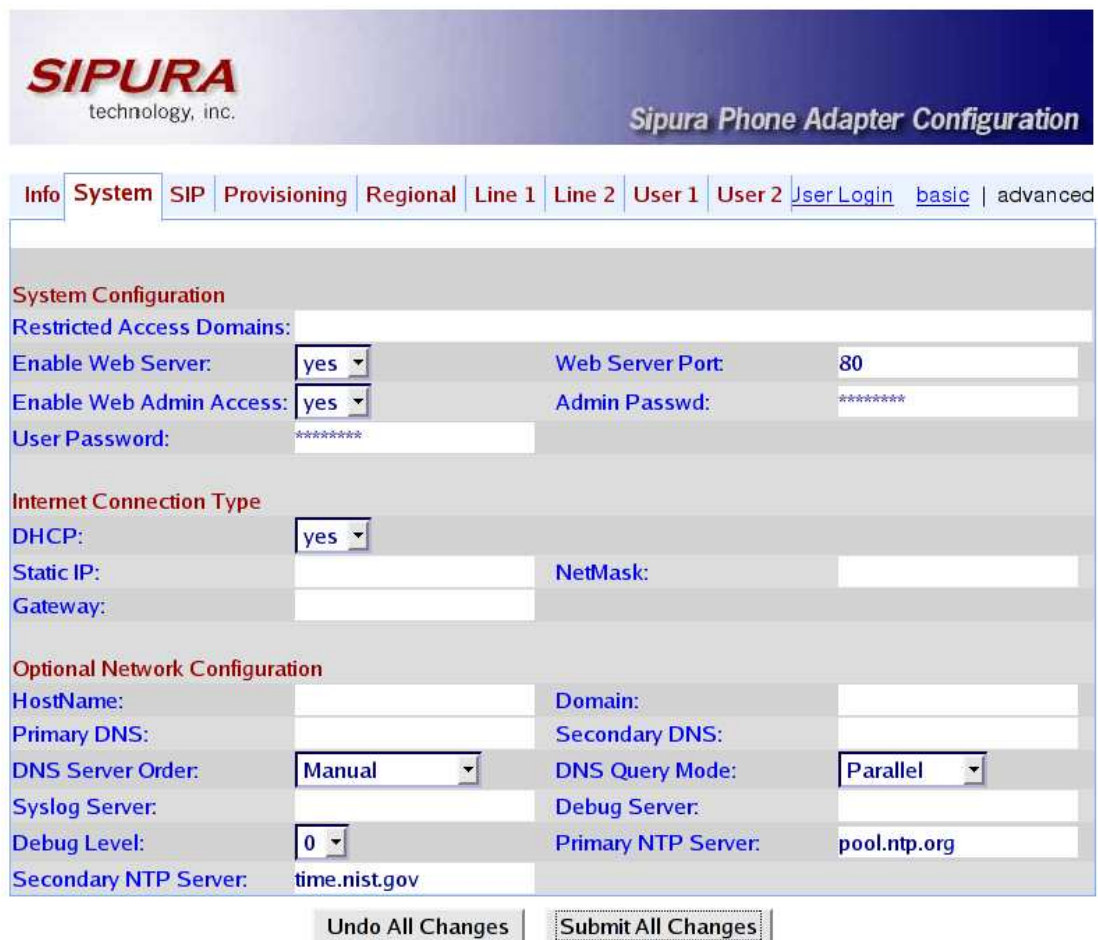
System
  System Configuration
    Admin Passwd: <choose a secure password for administration>
    User Password: <may be the same as the Admin Passwd>

  Optional Network Configuration
    Primary NTP Server: pool.ntp.org
    Secondary NTP Server: time.nist.gov

SIP

NAT Support Parameters

Handle VIA received:	yes
Handle VIA rport:	yes
Insert VIA received:	yes
Insert VIA rport:	yes
STUN Enable:	yes
STUN Server:	stun.freshtel.net

Regional (Australia only)

Call Progress Tones

Dial Tone:	400@-19,425@-19;30(*/0/1+2)
Busy Tone:	425@-10;10(.4/.4/1)
Reorder Tone:	425@-10;10(.2/.2/1)
Ring Back Tone:	400@-19,425@-19,450@-19;*(.4/.2/1+2+3,.4/.2/1+2+3,0/2/0)

Distinctive Ring Patterns
  Ring 1 Cadence: 60(1.5/3.4)
  Ring 3 Cadence:

                    60(1.5/3.4,.4/.2,.4/2,.4/.2,.4/2,.4/.2,.4/2,.4/.2,.4/2,.4/.2,.4/2,.4/.2
                    ,.4/2,.4/.2,.4/2,.4/.2,.4/2,.4/.2,.4/2,.4/.2,.4/2)
          (**Note:** the above must appear all as one line in the ATA config. You should **copy
          and paste** this line rather then trying to type it in.)

Distinctive Call Waiting Tone Patterns
  CWT8 Cadence: 30(.2/.2,.2/4.4)

Control Timer Values (sec)
  Hook Flash Timer Min: 0.07
  Hook Flash Timer Max: 0.13

Distinctive Ring Patterns

Ring1 Cadence:	60(1.5/3.4)	Ring2 Cadence:	60(.3/.2,1/.2,.3/4)
Ring3 Cadence:	60(1.5/3.4,.4/.2,.4/2,.4/.2,	Ring4 Cadence:	60(.4/.2,.3/.2,.8/4)
Ring5 Cadence:	60(.2/.2,.2/.2,.2/.2,1/4)	Ring6 Cadence:	60(.2/.4,.2/.4,.2/4)
Ring7 Cadence:	60(.4/.2,.4/.2,.4/4)	Ring8 Cadence:	60(0.25/9.75)

Distinctive Call Waiting Tone Patterns

CWT1 Cadence:	30(.3/9.7)	CWT2 Cadence:	30(.1/.1, .1/9.7)
CWT3 Cadence:	30(.1/.1, .3/.1, .1/9.3)	CWT4 Cadence:	30(.1/.1,.1/.1,.1/9.5)
CWT5 Cadence:	30(.3/.1,.1/.1,.3/9.1)	CWT6 Cadence:	30(.1/.1,.3/.2,.3/9.1)
CWT7 Cadence:	30(.3/.1,.3/.1,.1/9.1)	CWT8 Cadence:	30(.2/.2,.2/4.4)

Distinctive Ring/CWT Pattern Names

Ring1 Name:	Bellcore-r1	Ring2 Name:	Bellcore-r2
Ring3 Name:	Bellcore-r3	Ring4 Name:	Bellcore-r4
Ring5 Name:	Bellcore-r5	Ring6 Name:	Bellcore-r6
Ring7 Name:	Bellcore-r7	Ring8 Name:	Bellcore-r8

Ring and Call Waiting Tone Spec

Ring Waveform:	Sinusoid	Ring Frequency:	25
Ring Voltage:	70	CWT Frequency:	440@-10

Control Timer Values (sec)

Hook Flash Timer Min:	.07	Hook Flash Timer Max:	.13
Callee On Hook Delay:	0	Reorder Delay:	5
Call Back Expires:	1800	Call Back Retry Intvl:	30
Call Back Delay:	.5	VMWI Refresh Intvl:	30
Interdigit Long Timer:	10	Interdigit Short Timer:	3
CPC Delay:	2	CPC Duration:	0

Regional (all countries)

  Miscellaneous

    Time Zone: GMT+10:00 <or as appropriate>

    FXS Port Impedance:

        600   <North America>

        270+750||150nF   <most of Europe>

        220+820||120nF   <Australia, New Zealand>

        220+820||115nF   <Austria, Bulgaria, Germany, Slovakia, South Africa>

        370+620||310nF   <UK, India>

Miscellaneous

Set Local Date (mm/dd):		Set Local Time (HH/mm):	
Time Zone:	GMT+10:00	FXS Port Impedance:	220+820||120nF
FXS Port Input Gain:	-3	FXS Port Output Gain:	-3
DTMF Playback Level:	-16	DTMF Playback Length:	.1
Detect ABCD:	yes	Playback ABCD:	yes
Caller ID Method:	Bellcore(N.Amer,China)	FXS Port Power Limit:	3

Undo All Changes   Submit All Changes

Line 1 (and 2, if using a different Firefly number on the second line)

NAT Mapping Enable:	yes
NAT Keep Alive Enable:	yes
NAT Keep Alive Msg:	

Proxy and Registration

Proxy:	sip.freshtel.net
Make Call Without Reg:	yes
Ans Call Without Reg:	yes

Subscriber Information

Display Name:	<your full name>
User ID:	<your Firefly number>
Password:	<your Firefly password>

Audio Configuration
  Preferred Codec: G729a

NOTE: It is vital that the dial plans are entered correctly – as there is not enough space on a page to show them as one line, you should **copy and paste** one of the below dial plans to ensure it is correct. Missing a space or getting a character wrong will stop them from working.

Dial Plan (Australia only -- user has no local dialing prefix set)

(*123|*xxxxxxxx|<000:61000> S0|<112:61112> S0|<106:61106> S0|61000 S0|61112 S0|61106 S0|0[2378][2-6]xxxxxxx|0[4569]xxxxxxxx|611300xxxxxx|611800xxxxxx|6113xxxx|6118xxxx|[1-9]x.)

Dial Plan (Australia only -- user has local dialing prefix set)

(*123|*xxxxxxxx|000 S0|112 S0|106 S0|001[0-9]x.|0[4569]xxxxxxxx|0[2378][2-9]xxxxxxx|[2-9]xxxxxxx|1300xxxxxx|1800xxxxxx|13xxxx|18xxxx|1[4-79]x.)

Audio Configuration			
Preferred Codec:	G729a	Silence Supp Enable:	no
Use Pref Codec Only:	no	Echo Canc Enable:	yes
G729a Enable:	yes	Echo Canc Adapt Enable:	yes
G723 Enable:	yes	Echo Supp Enable:	yes
G726-16 Enable:	yes	FAX CED Detect Enable:	yes
G726-24 Enable:	yes	FAX CNG Detect Enable:	yes
G726-32 Enable:	yes	FAX Passthru Codec:	G711u
G726-40 Enable:	yes	FAX Codec Symmetric:	yes
DTMF Tx Method:	Auto	FAX Passthru Method:	NSE
Hook Flash Tx Method:	None	FAX Process NSE:	yes
Release Unused Codec:	yes		

Dial Plan

Dial Plan:	(*123|*xxxxxxxx|000 S0|112 S0|106 S0|001[0-9]x.|0[4569]xxxxxxxx|0[2378][2-9]x>
Enable IP Dialing:	no

FXS Port Polarity Configuration

Idle Polarity:	Forward	Caller Conn Polarity:	Forward
Callee Conn Polarity:	Forward		

[Undo All Changes]   [Submit All Changes]

Dial Plan (UK only -- user has no local dialing prefix set)

(*123|*xxxxxxxx|<999:44999> S0|<112:44999> S0|44999 S0|44112 S0|4418000 S0|4418001999 S0|440800112999 S0|0[2-9]xxxxxxxx|[1-9]x.)

Dial Plan (UK only -- user has local dialing prefix set)

(*123|*xxxxxxxx|999 S0|112 S0|18000 S0|18001999 S0|0800112999 S0|[2-9]xxxxxxx|[2-9]xxxxxx|[2-9]xxxxx|[2-9]xxxx|0[1237]xxxxxxxxx|01xxxxxxxx|0[045689]x.|1x.)

Dial Plan (US and Canada)   <no change>

Once these changes are made and the "Submit All Changes" button is clicked, your ATA will reboot, and you should be ready to place and receive calls with Freshtel.

Dialling:

To dial a Firefly number or voicemail, prefix the number with a star, e.g. ***80001234**, ***123**.

If you have configured a local dialling prefix for your account via the [Freshtel website](#), you can dial local, national, mobile, and international PSTN numbers exactly as you would from a land line phone in your area; e.g. **08007654321** (US), **9557745** (US – local), **0061399156415** (UK – international), **99156415** (Australia – local).

If you have not configured a local dialling prefix, numbers are dialled in full (including country code but without any international dial prefix), e.g. **61399156415**, **18007654321**. Land lines and mobiles in Australia can be dialled with an initial **0**, e.g. **0399156415**.

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