<u>Linksys SPA2102 Configuration Guide for FreePhoneLine</u>

Official FPL guidelines you can find at: http://support.freephoneline.ca/entries/23120323-VoIP-Unlock-Key-Credentials

All the settings were <u>default</u> on the device before configuration.

<u>Step 1.</u>
Plug all the appropriate wires to your Linksys SPA2102 device.

- Internet cable (Internet connection)
- Phone line (attached to the phone) *[Note: Use 'Phone 1' port]*
- Power

<u>Step 2.</u>
By default settings Linksys SPA2102 WAN access is disabled.
You have to enable this setting before you access web-based utility.
From the phone attached to your Linksys SPA2102 device:

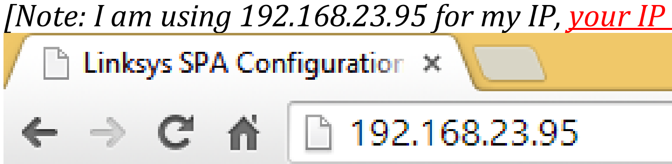
- Dial '****'
- Then dial '7932#'
- Then press '1#' (to enable WAN access)
- Then press '1' (to save changes)
- Hang up the phone

Now, we have to figure out IP address to access web-based utility. From your phone dial:

- '****'
- Then dial '110#'

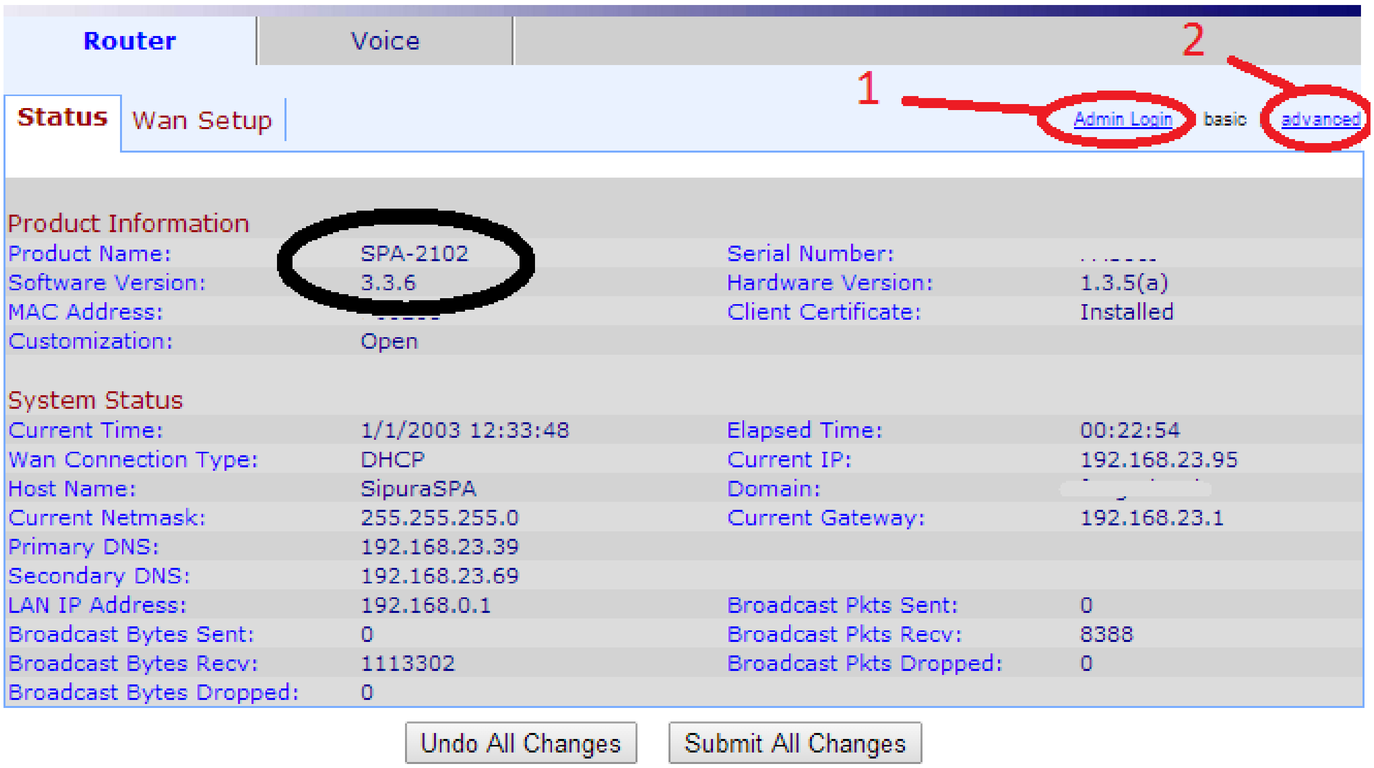
Write down your <u>IP address.</u>

<u>Step 3.</u>
On the PC/Mac connected to the same network as your Linksys SPA2102 device, go to your browser (Internet Explorer; Chrome; Firefox; Opera; Safari, etc.).
In the URL bar put your <u>IP address from Step 2.</u>
[Note: I am using 192.168.23.95 for my IP, <u>your IP address might be different!</u>]

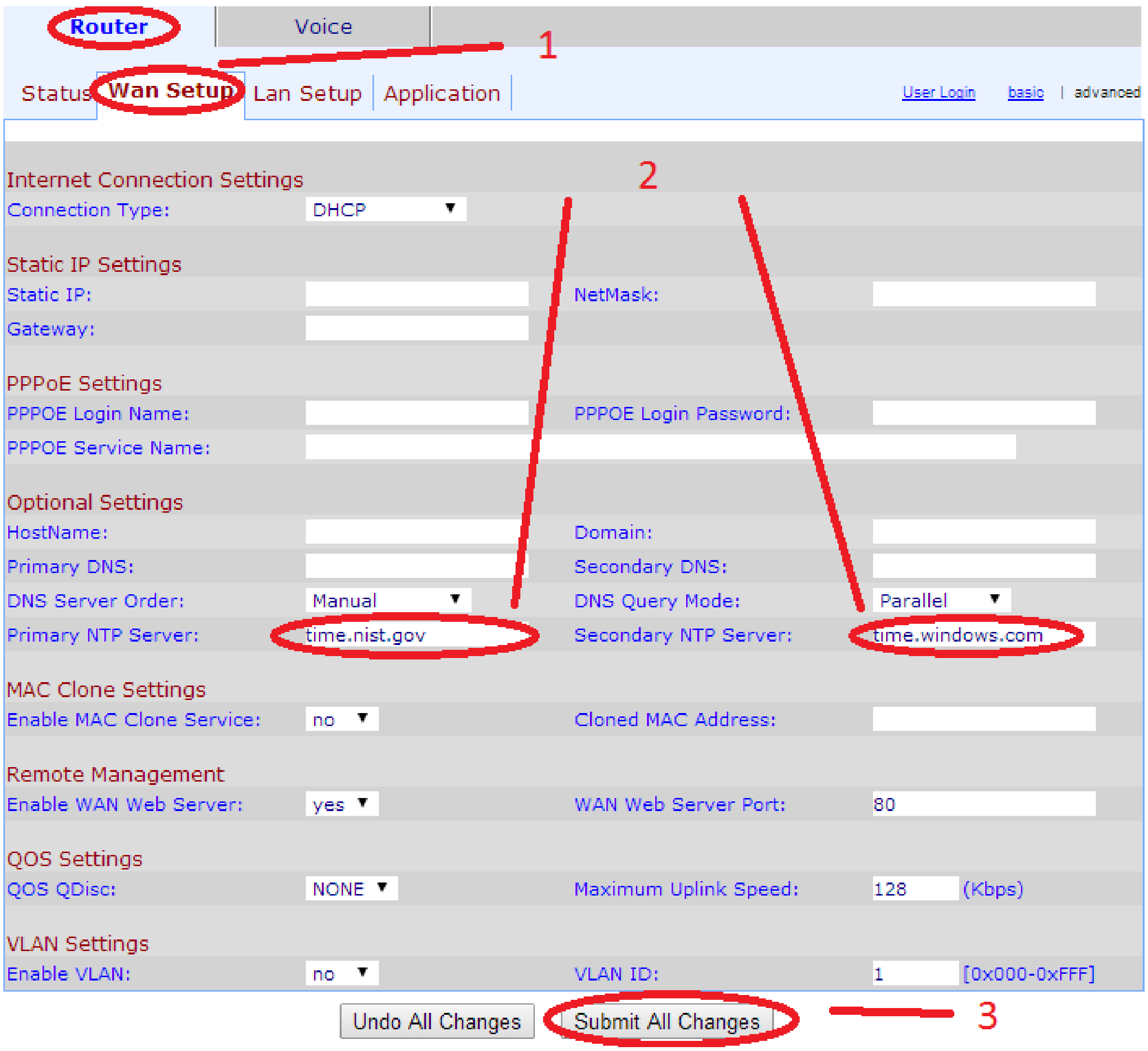


Web-based utility will appear.

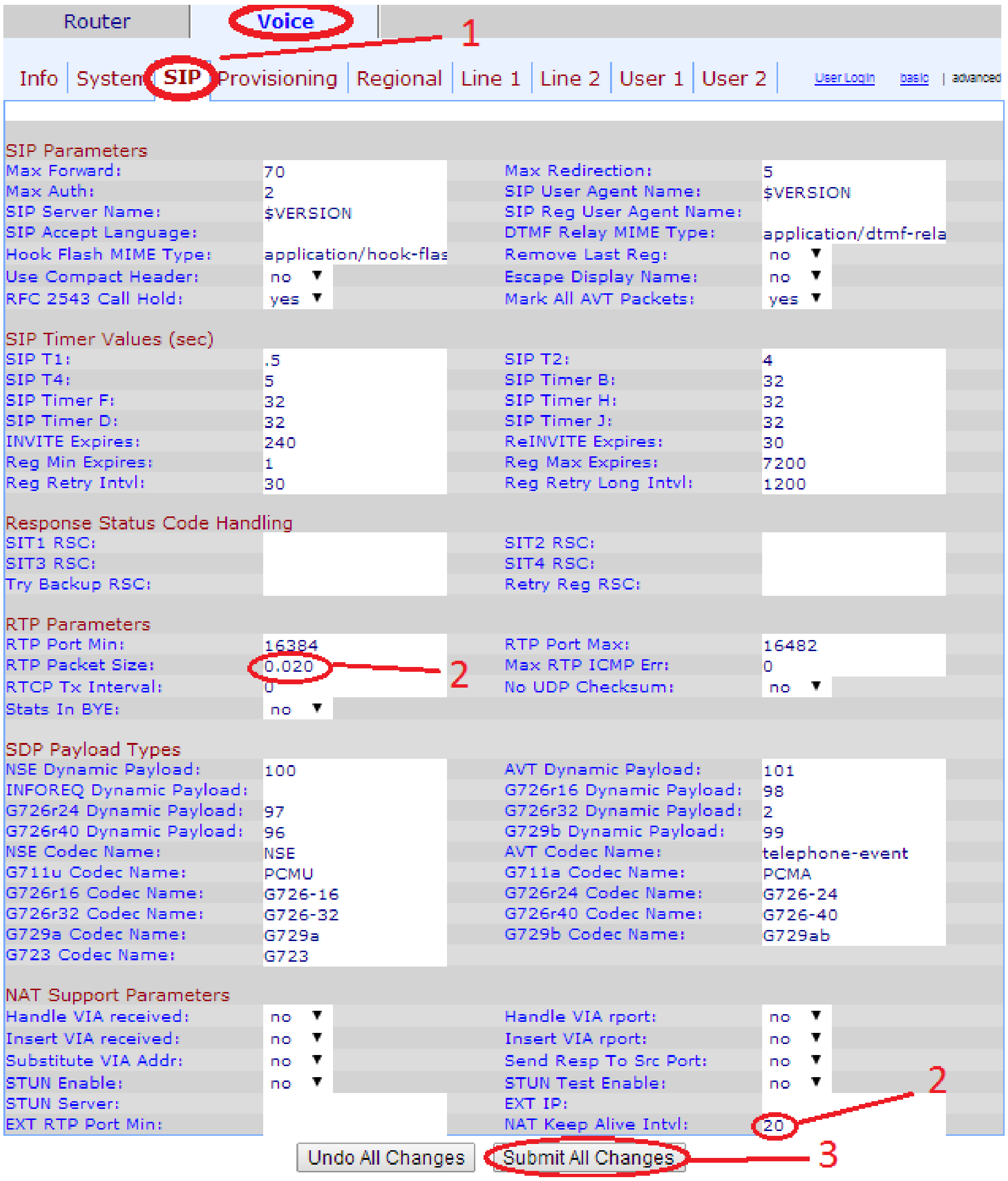
You have to click 'Admin Login', then switch from 'basic' to 'advanced'.



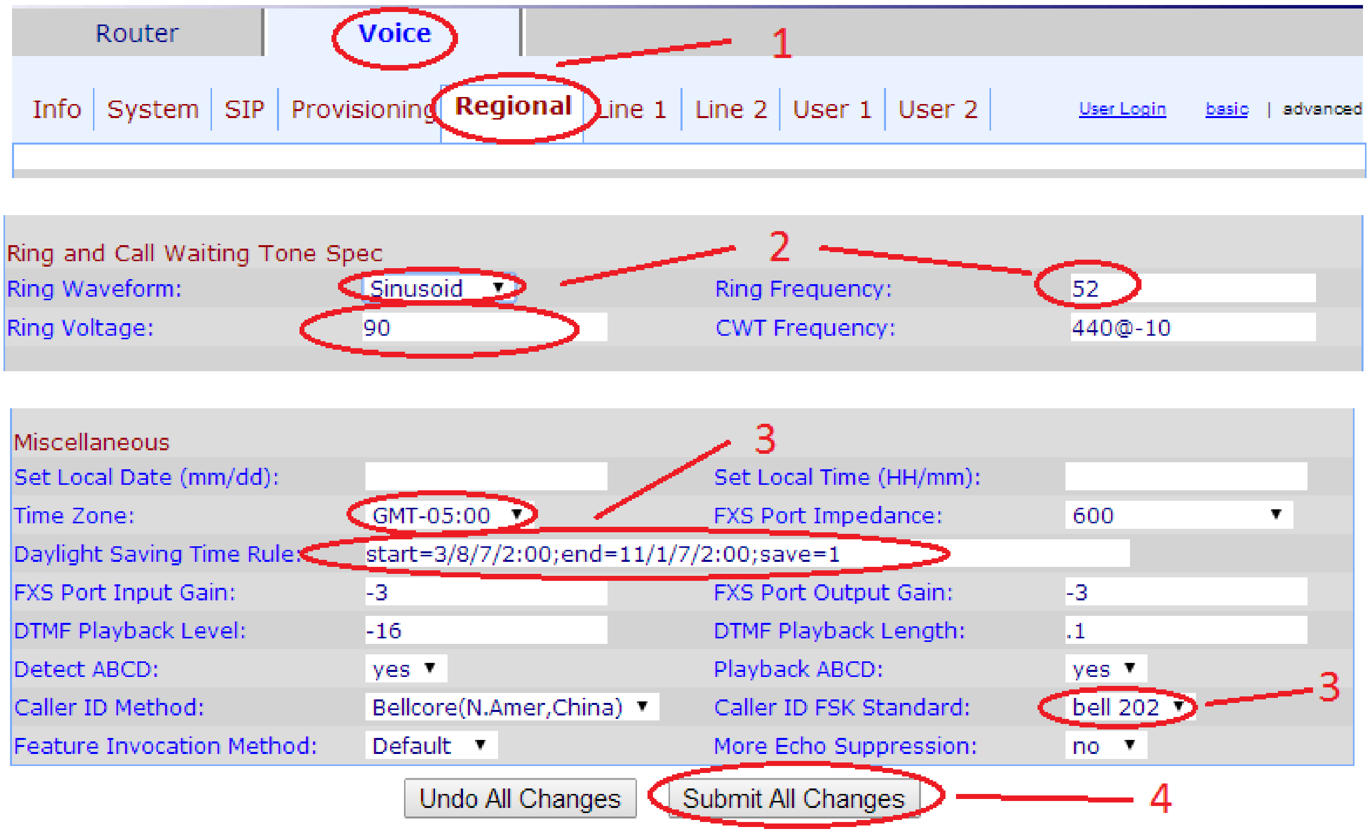
<u>Step 4.</u>
On the ‘Router’ tab go to ‘Wan Setup’ tab and fill in the following settings:
Primary NTP Server: *time.nist.gov*
Secondary NTP Server: *time.windows.com*
Then click ‘Submit All Changes’ button at the bottom.
Wait until changes are saved.



<u>Step 5.</u>
Go to 'Voice' tab, then go 'SIP' tab and change the following settings:
Under 'RTP Parameters' category:
RTP Packet Size: *0.020*
Under 'NAT Support Parameters' category:
NAT Keep Alive Intvl: *20*
Then click 'Submit All Changes' button at the bottom.
Wait until changes are saved.



<u>Step 6.</u>
Go to ‘Voice’ tab, then go ‘Regional’ tab and change the following settings:
Under ‘Ring and Call Waiting Tone Spec’ category:
Ring Waveform: *Sinusoid*
Ring Frequency: *52*
Ring Voltage: *90*
Under ‘Miscellaneous’ category:
Time Zone: *GMT-5*
Daylight Savings Time Rule: *start=3/8/7/2:00;end=11/1/7/2:00;save=1*
Then click ‘Submit All Changes’ button at the bottom.
Wait until changes are saved.



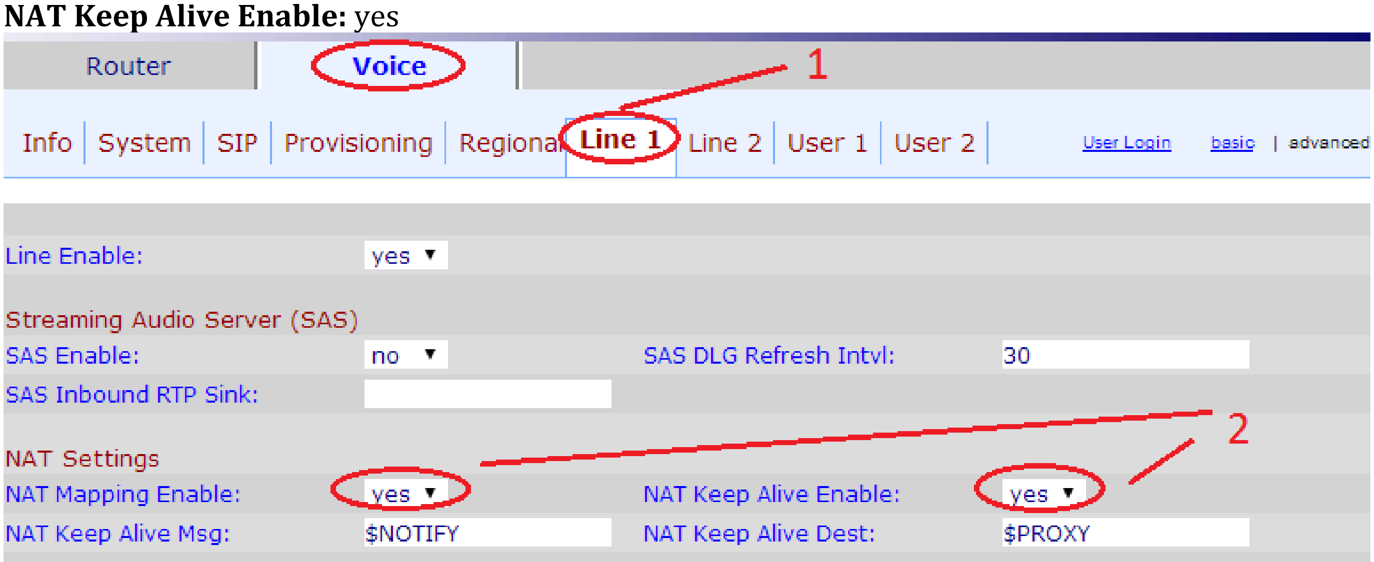
<u>Step 7.</u>

Go to 'Voice' tab, then go 'Line 1' tab and change the following settings:

Under 'NAT Settings' category:

NAT Mapping Enable: *yes*

NAT Keep Alive Enable: yes

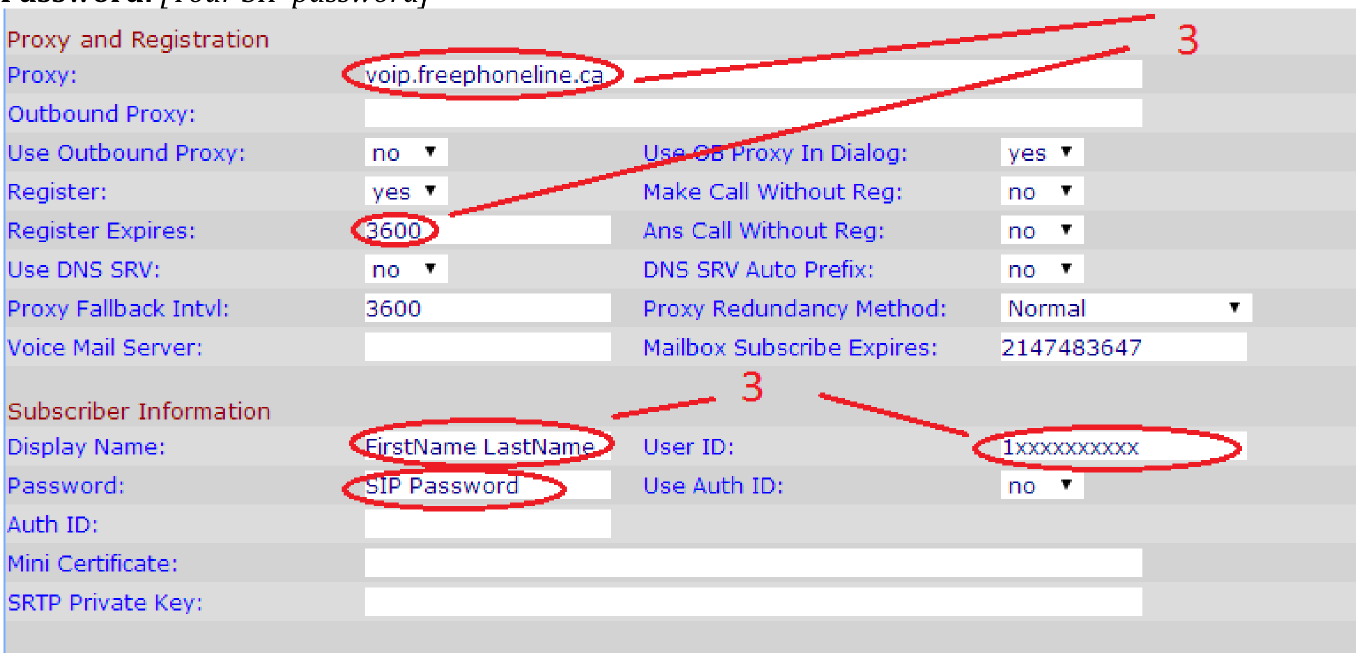


Under 'Proxy and Registration' category:

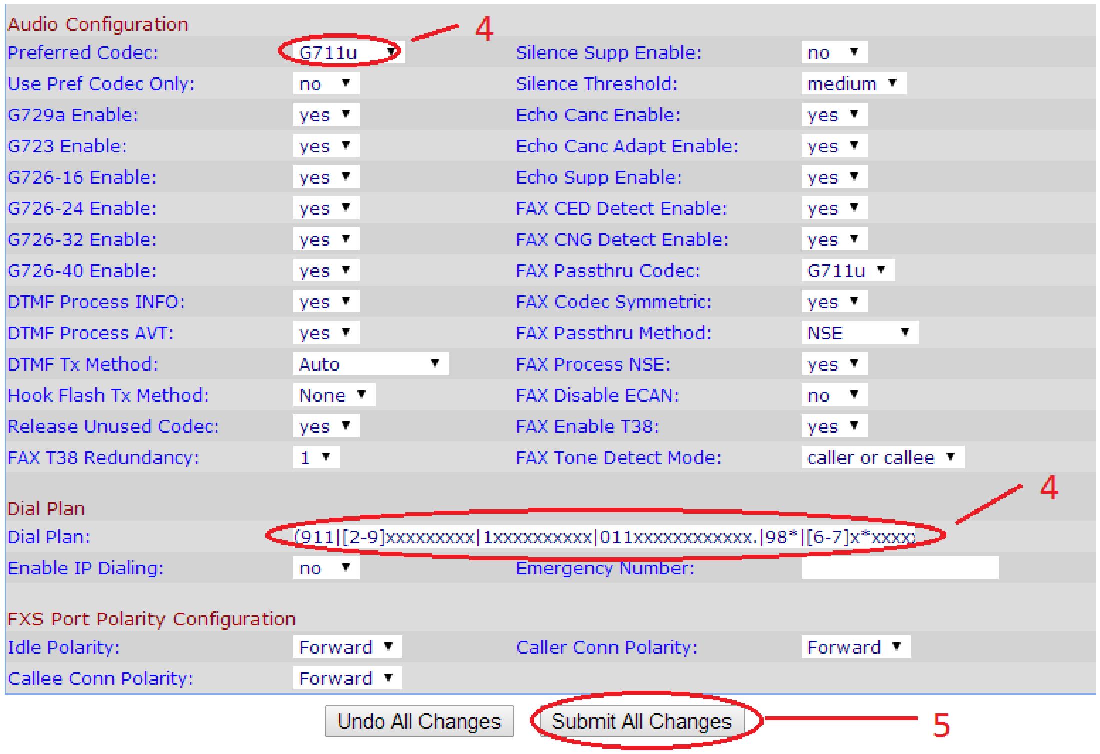
Proxy: *voip.freephoneline.ca* **OR** *voip2.freephoneline.ca*

Register Expires: *3600*

Under 'Subscriber Information' category:
Display Name: *[Your first and last name]*
[Note: ATA and SIP clients with a Caller ID string containing non-alphanumeric characters will prevent you from making outgoing calls]
User ID: *[Your FPL number 1xxxxxxxxxx]*
Password: *[Your SIP password]*



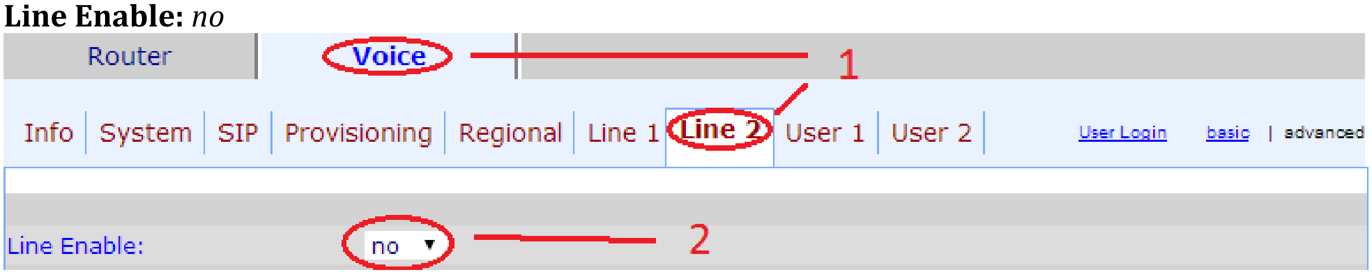
Under 'Dial Plan' category:
Dial Plan: *(911|[2-9]xxxxxxxxx|1xxxxxxxxxx|011xxxxxxxxxxx.|98*|[6-7]x*xxxxxxxxxx.)*
Then click 'Submit All Changes' button at the bottom.
Wait until changes are saved.



Step 8.

Go to 'Voice' tab, then go to 'Line 2' tab:

Line Enable: *no*



Then click 'Submit All Changes' button at the bottom.

Wait until changes are saved.

Enjoy your free phone line! ☺