Linksys PAP2T Configuration with VirtualPBX

The Linksys PAP2T is an inexpensive ATA device that connects to the internet and registers with your Virtual PBX extension, allowing you to use any analog phone plugged into the phone port on the back of the ATA device.

The instructions below are based on using the PAP2T in its factory default configuration as if buying it new from the store. The information below is based on firmware version 3.1.15

Connect your Linksys PAP2T

- Connect your router with the supplied Ethernet network cable to the PAP2T
- Connect your phone to the PAP2 Line 1 port
- Plug the supplied power cable into the PAP2T
- Wait for PAP2T to go through it's power on sequence (~1 minute)

Get IP Address from Linksys PAP2T

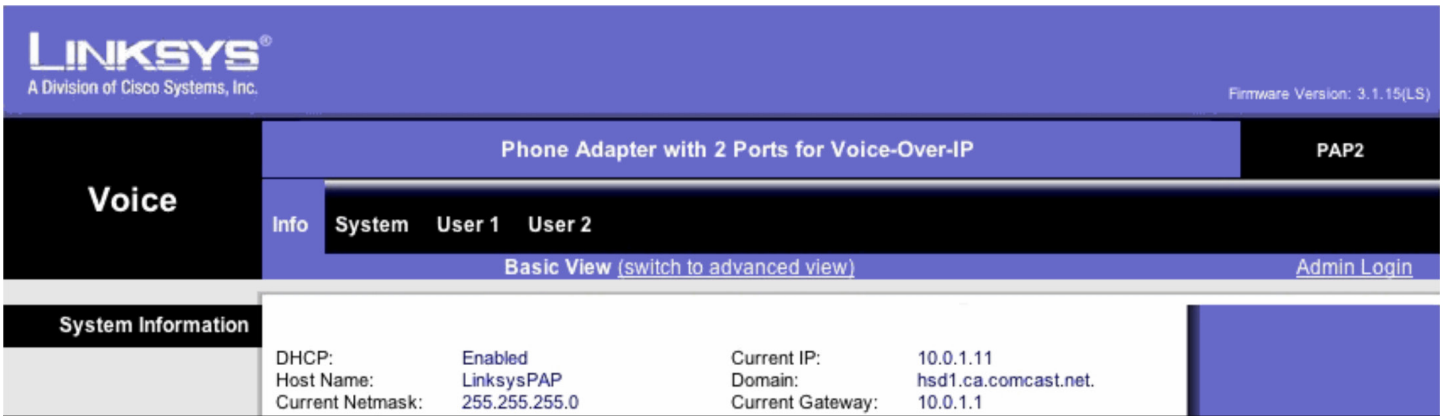
Have a pencil and paper ready to write down the IP address

- Pick up the phone connected to the PAP2T and press the * key 4 times
- You will hear the following: "Configuration menu. Please enter option, followed by the # key"
- Press **110#** on the phone
- You will hear a message that will give you the IP address currently assigned to the PAP2T; write the IP address down

Configuring the Linksys PAP2T

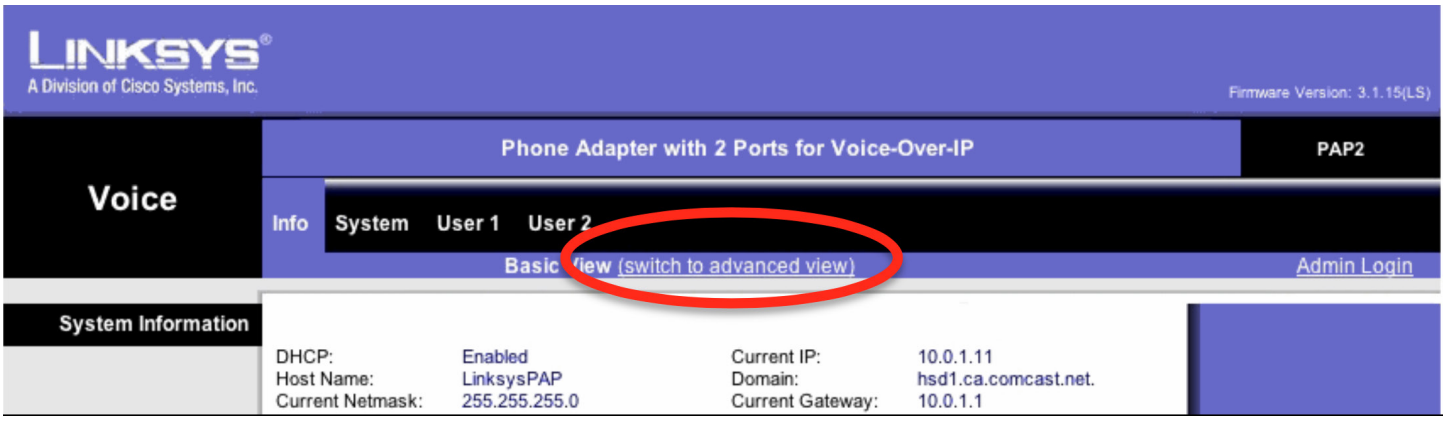
1.Open a web browser (Internet Explorer, Safari, Firefox, etc.) and enter the IP address you retrieved from above. Some browsers will require you to remove the leading zero's in the IP address (for instance, you heard 192.168.001.001; removing the zeros would result in 192.168.1.1)

2. The PAP2T does not have a password by default, so you should see the following:

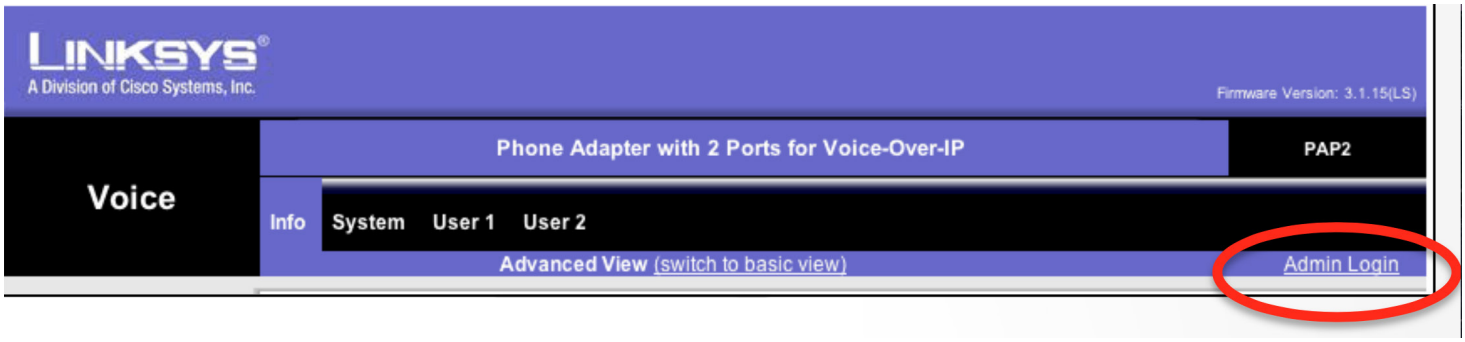


1998-2014. VirtualPBX.com, Inc. All rights reserved. Virtual PBX, TrueACD, and ProSIP are ® trademarks of VirtualPBX.com, Inc.

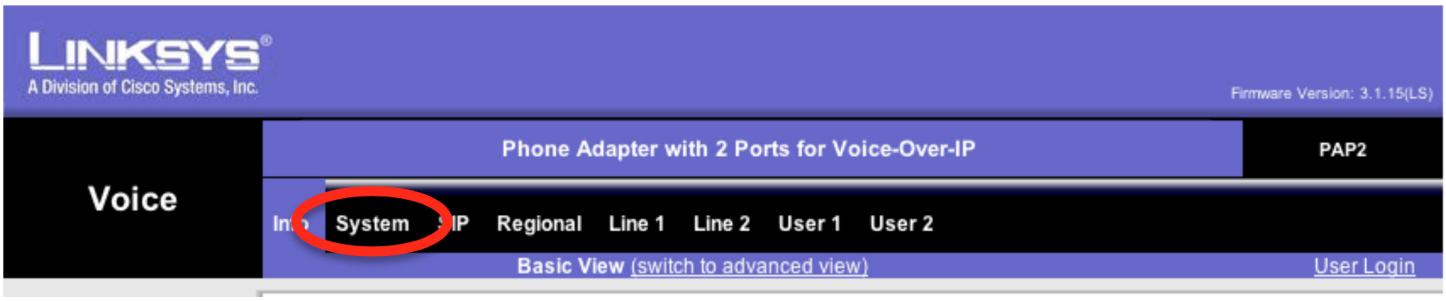
3. Click to **switch to advanced view** as indicated below:



4. Now click on the **Admin Login** link as indicated in the picture below:

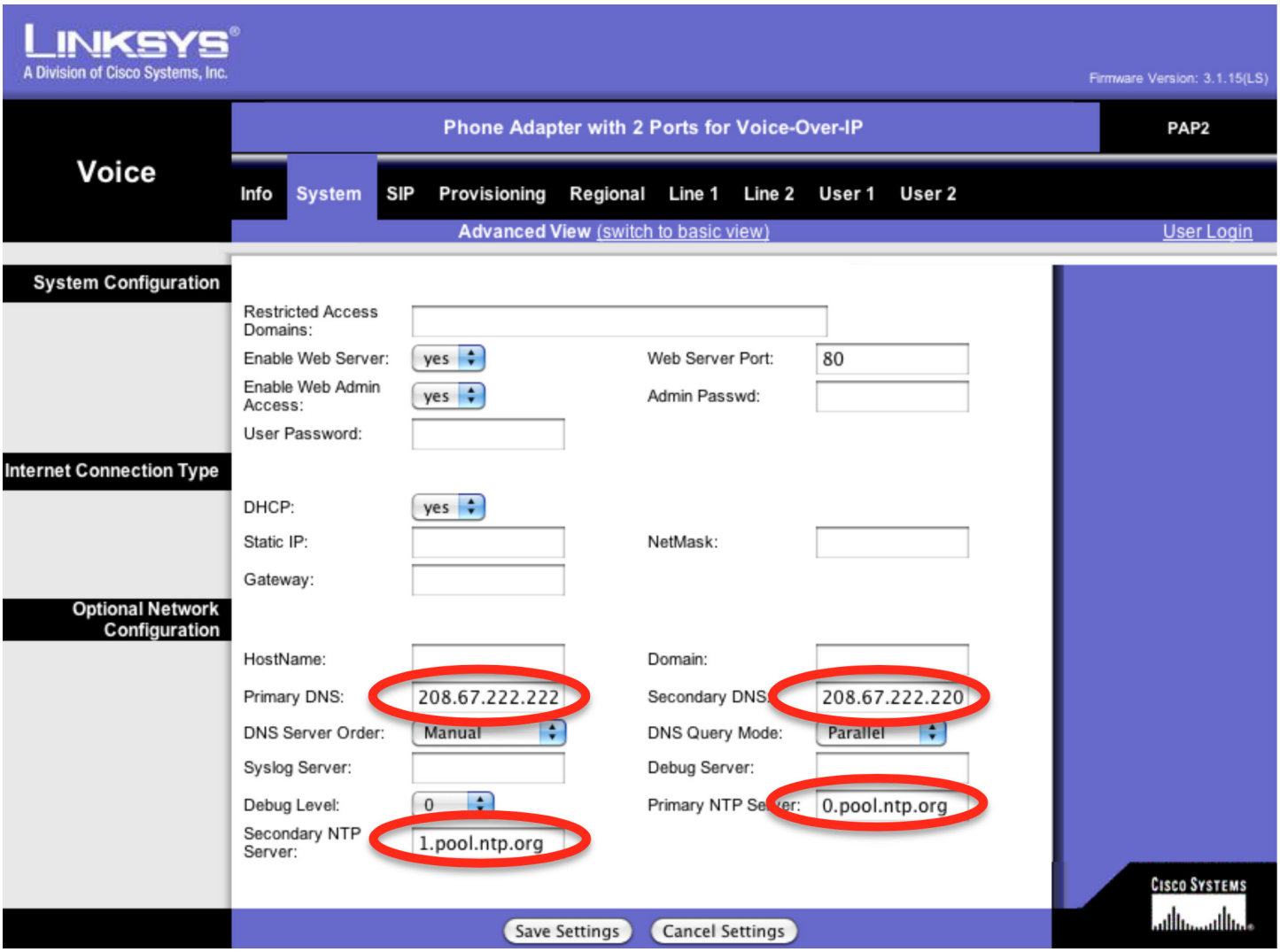


5. Click the **System** menu item at the top of the screen as shown below:



1998-2014. VirtualPBX.com, Inc. All rights reserved. Virtual PBX, TrueACD, and ProSIP are ® trademarks of VirtualPBX.com, Inc.

6. Enter time servers and DNS servers as indicated below:
   - Set your **Primary DNS** server to a public DNS server such as **208.67.222.222**. You can also set your **Secondary DNS** server to a public DNS server such as **208.67.222.220**
   - Set your **Primary NTP Server** to **0.pool.ntp.org**, or your preferred working NTP server. You can also add a **Secondary NTP Server** if you wish

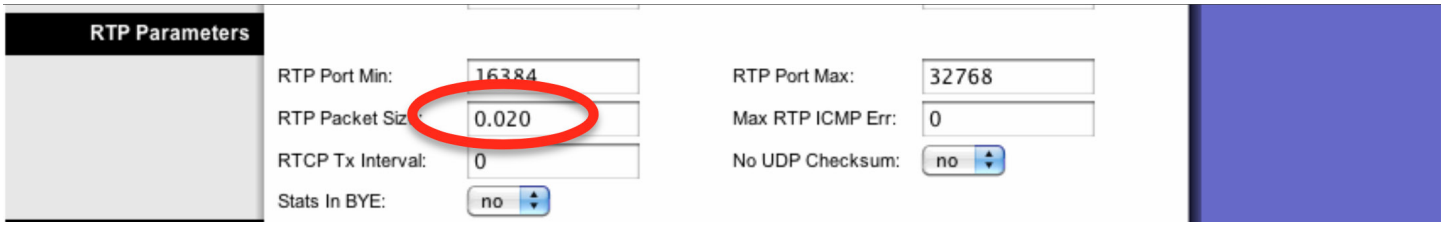


Click the **Save Settings** button after you have entered the above. The web page will display a screen for a few seconds stating that it is saving the changes you made.

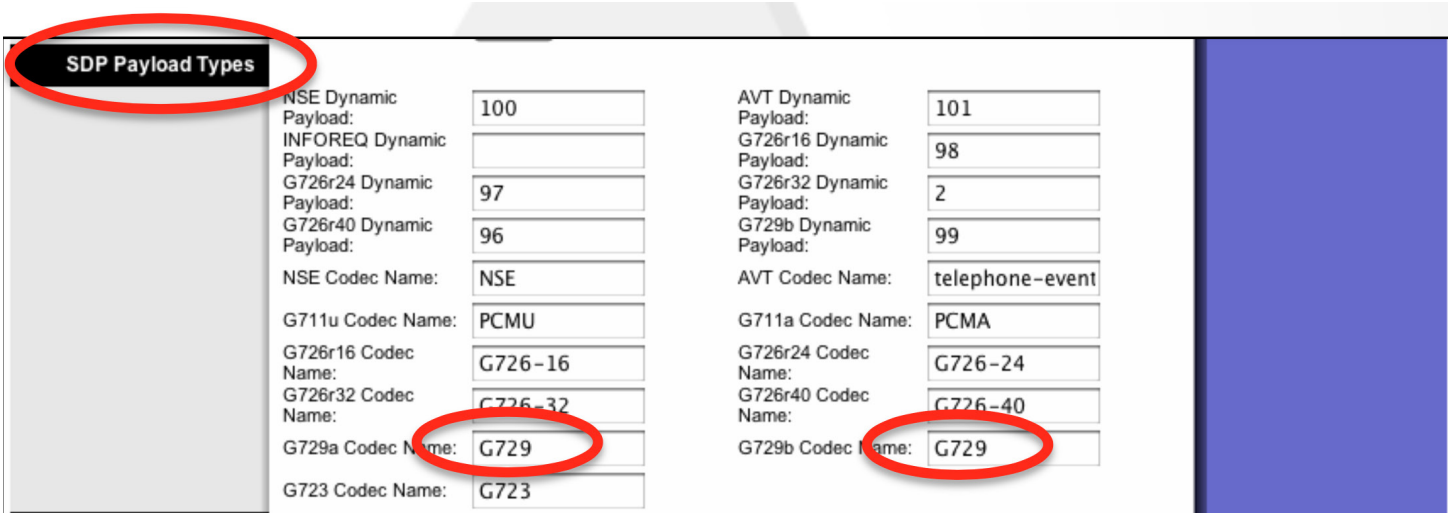
1998-2014. VirtualPBX.com, Inc. All rights reserved. Virtual PBX, TrueACD, and ProSIP are ® trademarks of VirtualPBX.com, Inc.

7. Click on the **SIP** tab from the main menu.

8. Scroll down to **RTP Parameters** section. Set the following value:
   - RTP Packet Size: **0.020**



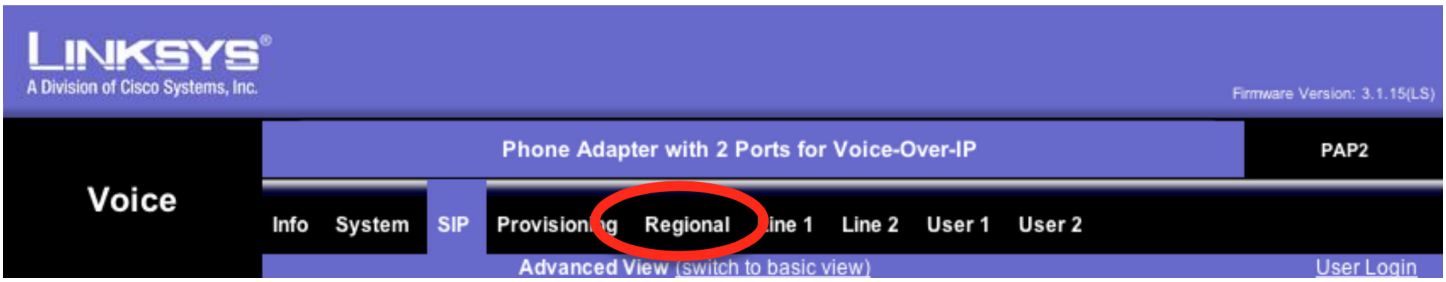
9. Scroll down to **SDP Payload Types** section. Set the following values:
   - **G729a Codec Name:** G729
   - **G729b Codec Name:** G729



Click the **Save Settings** button after you have entered the above. The web page will display a screen for a few seconds stating that it is saving the changes you made.

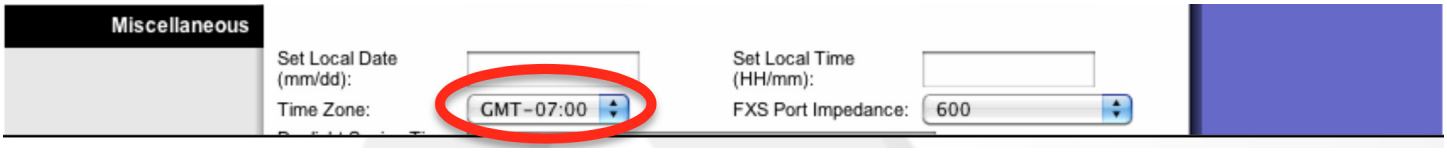
1998-2014. VirtualPBX.com, Inc. All rights reserved. Virtual PBX, TrueACD, and ProSIP are ® trademarks of VirtualPBX.com, Inc.

10. Click the tab labeled **Regional** in the menu at the top. You will now be shown the **Regional** page.



11. Scroll to the **Ring and Call Waiting Tone Spec** portion of the page (middle) and set the following:
   - **Ring Voltage:** 85
   - **Ring Frequency:** 20

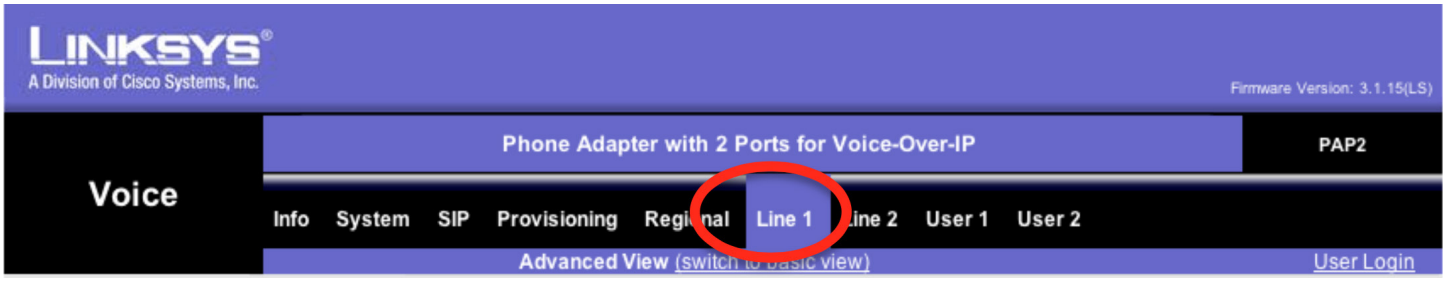
12. Scroll to the bottom of the Regional page. In the **Time Zone** field select the number of hours plus or minus that your local time is offset from Greenwich Mean Time (GMT).



Click the **Save Settings** button after you have entered the above. The web page will display a screen for a few seconds stating that it is saving the changes you made.

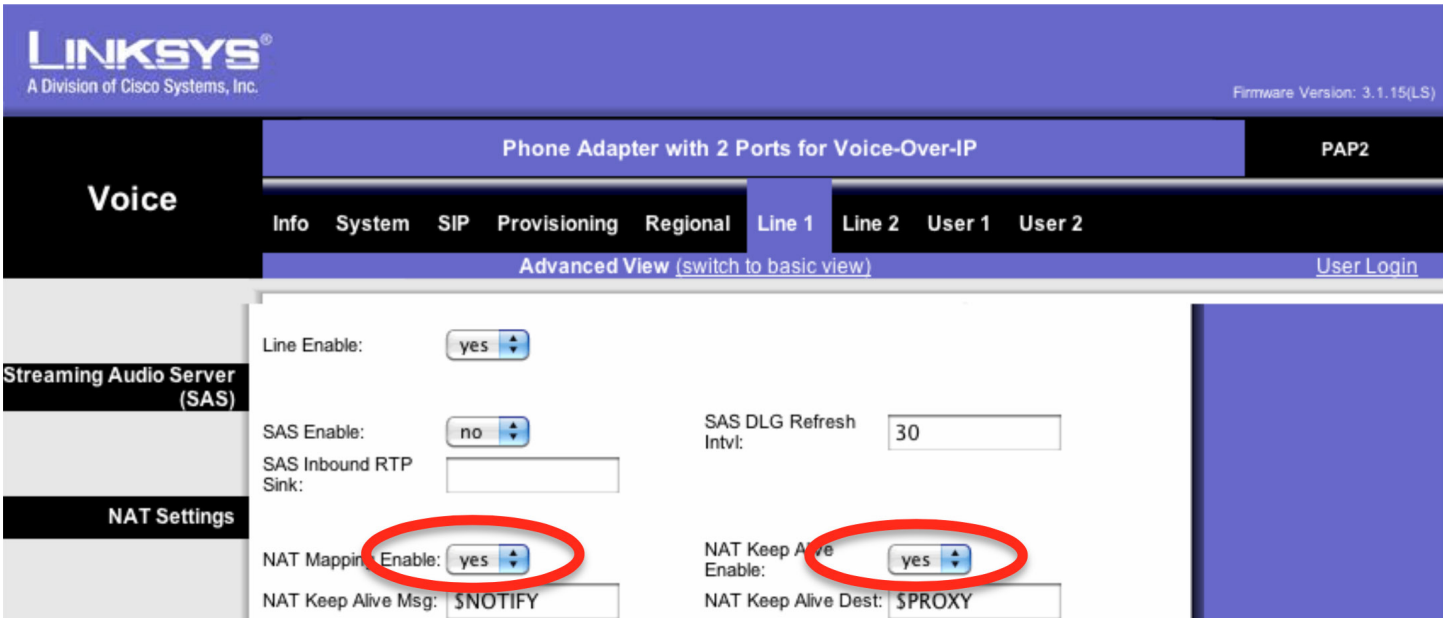
NOTE: The following is for configuring Line 1. If you've already got another provider using Line 1, then use the below instructions for configuring Line 2.

13. Click the tab labeled **Line 1**

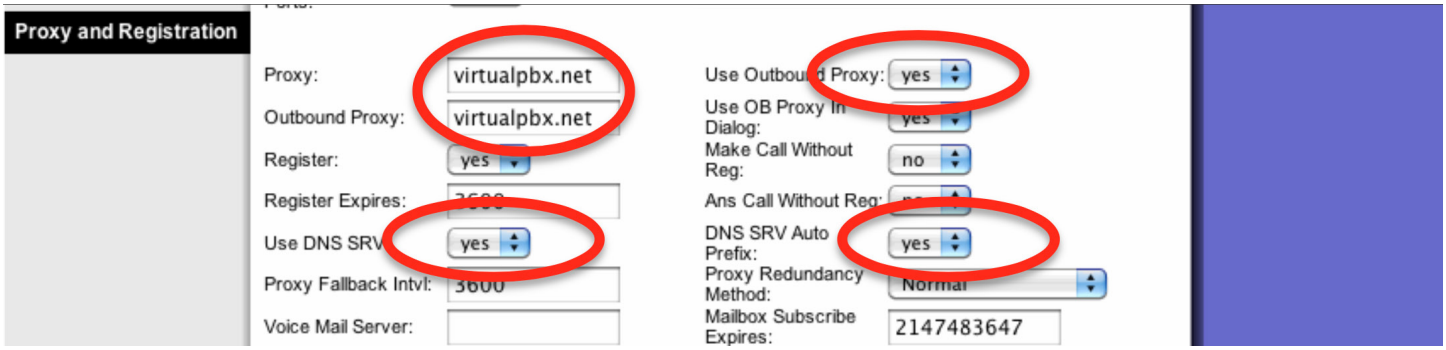


1998-2014. VirtualPBX.com, Inc. All rights reserved. Virtual PBX, TrueACD, and ProSIP are ® trademarks of VirtualPBX.com, Inc.

14. Scroll down to the **NAT Settings** section and make sure the following are set:
   - **NAT Mapping Enable:** Yes
   - **NAT Keep alive Enable:** Yes



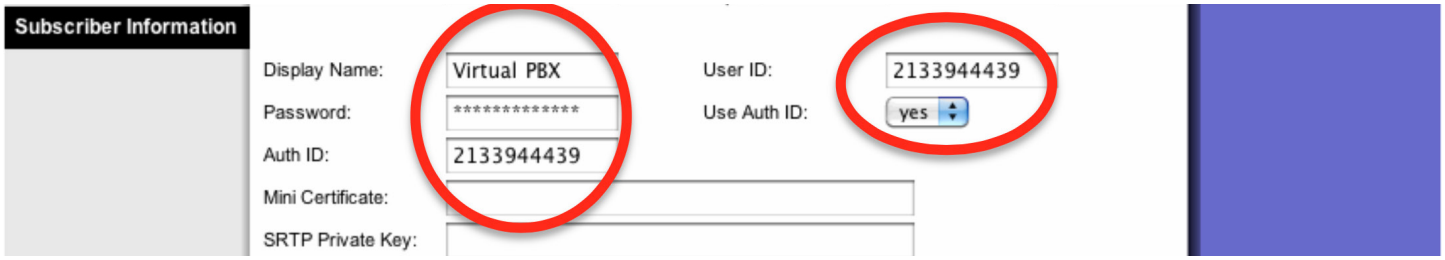
15. Scroll down to the **Proxy and Registration** section and make sure the following are set:
   - **Proxy:** Enter **virtualpbx.net**
   - **Outbound proxy:** Enter **virtualpbx.net**
   - **Use Outbound Proxy:** Yes
   - **Use DNS SRV:** Yes
   - **DNS SRV Auto Prefix:** Yes



1998-2014. VirtualPBX.com, Inc. All rights reserved. Virtual PBX, TrueACD, and ProSIP are ® trademarks of VirtualPBX.com, Inc.

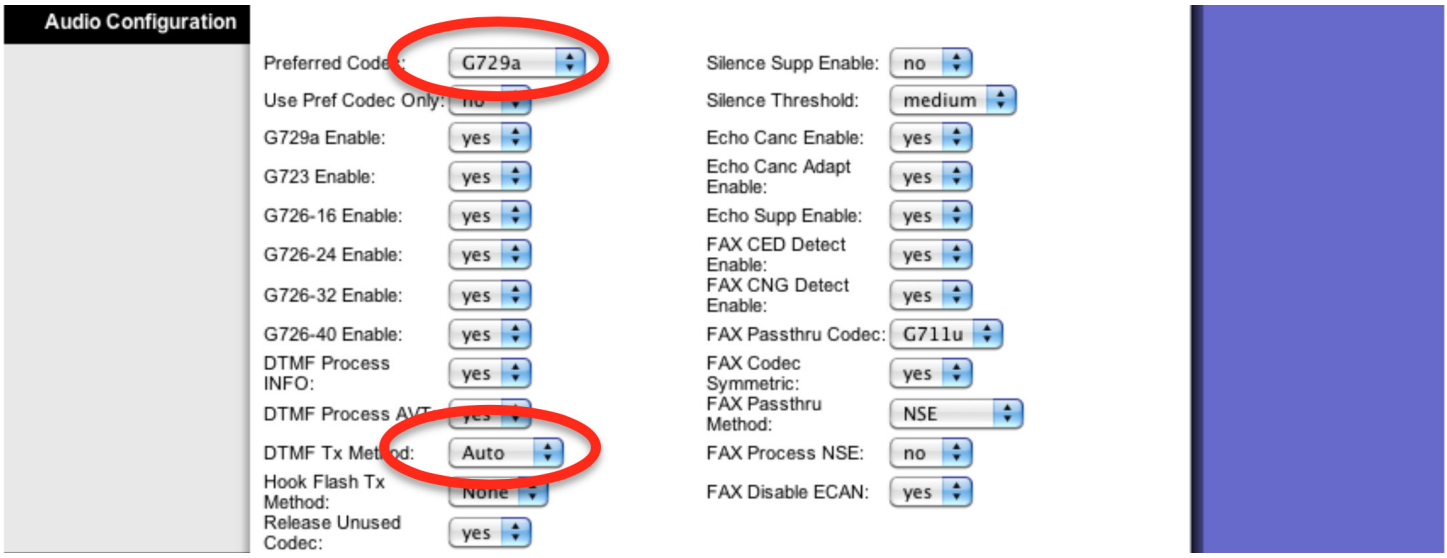
16. Scroll down to the **Subscriber Information** section and make sure the following are set:

- **Display Name:** Enter your name in this field, or put **VirtualPBX**
- **User ID:** Enter the **UserID** given to you by **VirtualPBX**
- **Password:** Enter the **password** given to you by **VirtualPBX**
- **Auth ID:** enter the same number as you did for the **User ID** above
- **Use Auth ID:** Yes



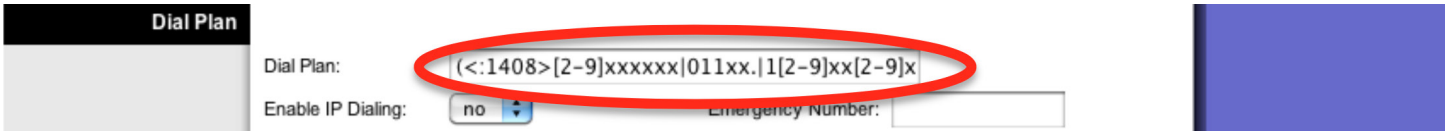
18. Scroll down to the **Audio Configuration** section and make sure the following are set:

- **Preferred Code:** G729a
- **DTMF Tx Method:** Auto



19. Scroll down to the **Dial Plan** section and delete everything in that field and replace it with the following:
(<:1408>[2-9]xxxxxx|011xx.|1[2-9]xx[2-9]xxxxxx|[1-8]11S0)

Then replace just the “408” numbers in the dial plan with your own 3-digit area code. Be sure to keep the “1”.



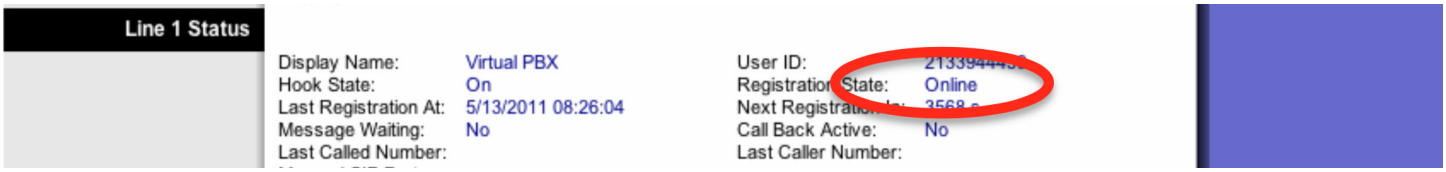
1998-2014. VirtualPBX.com, Inc. All rights reserved. Virtual PBX, TrueACD, and ProSIP are ® trademarks of VirtualPBX.com, Inc.

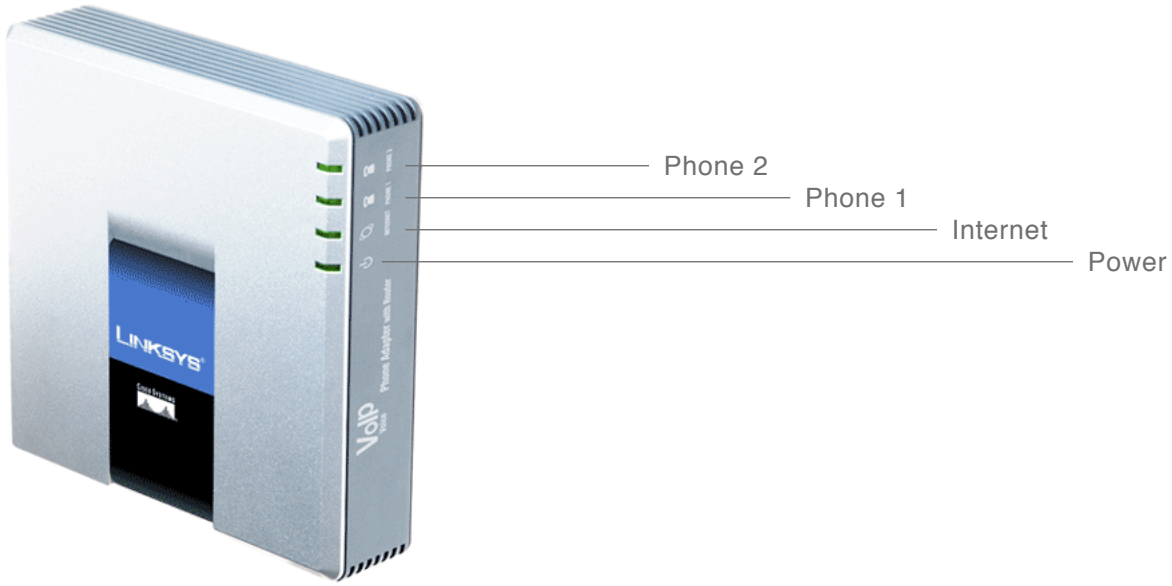
Click the **Save Settings** button after you have entered the above. The web page will display a screen for a few seconds stating that it is saving the changes you made.

Verify Linksys PAP2T Registration

Your PAP2T should now be registered to your extension in the Virtual PBX system. Below are the different ways to verify your PAP2T is registered correctly:

- Click the **Info** tab in the top menu and scroll down to the **Line 1 Status** section; the **Registration State** field should show **Online**.
- The **light** next to the **Line 1** on the front of your PAP2T should be on
- You should have dial tone on Line 1 when you pickup the phone.





You Are Now Ready to Use Your Linksys PAP2T!

You are now connected and ready to make calls. Dialing from your phone can be accomplished in either of the following ways:

- Enter the **phone number**, then press the **Talk** or **Send** key on your phone
- Press the **Talk** or **Send** key first, then enter the **phone number**

You can test your extension by completing one of the following:

- Dial any of your extension numbers in the system
- Dial any valid phone number in the U.S. or Canada using the following format:
  - **1 + area code + 7-digit number**
  - **7-digit Number (**have your system administrator make sure your default area code is set correctly in order to make 7-digit dialing calls

1998-2014. VirtualPBX.com, Inc. All rights reserved. Virtual PBX, TrueACD, and ProSIP are ® trademarks of VirtualPBX.com, Inc.