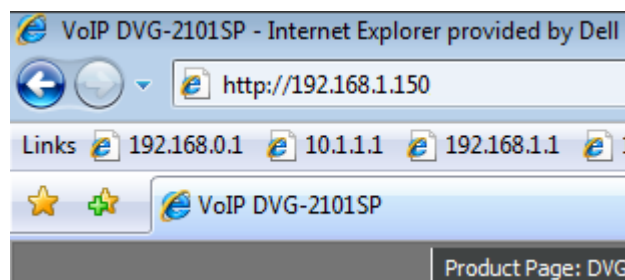


Configuring the D-Link DVG-2101SP with a VoIP Account from: **FRESHTEL**

In this guide we will cover off the configuration of the D-Link DVG-2101SP with a VoIP Account. Please follow the below steps in order to get the DVG-2101SP configured and ready to make and receive VoIP calls.

Step 1:

Log into the DVG-2101SP's Web Interface, this can be done by entering the IP address of the unit into your Web Browser, by default the unit will have an IP of 192.168.1.150 and also be able to receive an IP address via a DHCP Server. If you know the DHCP Server assigned IP then use this in the address bar of your Web Browser if not then use the 192.168.1.150 address.



Enter "http://192.168.1.150" into the address bar

You should now be prompted with a login screen as shown below, this will provide you with access to the Configuration Web Interface of the DVG-2101SP. The default login for this unit will be the Username "admin" and a blank password. If you have changed this please enter your altered login details, if you are unsure of these a factory reset of the unit may be required. Please consult the User Manual for more details on how this is achieved.

A screenshot of the "LOGIN" screen. The title is "LOGIN" in orange. Below it, it says "Welcome to DVG-2101SP Web Management". There are two input fields: "Username:" and "Password:". Below the password field is a checkbox labeled "Remember my login info. on this computer" which is checked. At the bottom is a "Login" button.

Login to the Web Interface with the username of "admin" and no password.

Step 2:

Once logged into the Web Browser we will need to navigate to the VoIP Configuration section of the Web Interface, this can be done by clicking on the **VoIP Setup** button on the left hand side navigation menu (shown next to the red arrow).

The screenshot shows the D-Link web interface for the DVG-2101SP. The top navigation bar includes 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists 'Wizard', 'Internet Setup', 'VoIP Setup' (highlighted with a red arrow), 'Time and Date', and 'Logout'. The main content area is titled 'CONNECTION WIZARD' and contains a 'Setup Wizard' button. A 'Note' at the bottom of the wizard area reads: 'Please make sure you have your VoIP Service Providers details and your VoIP Accounts details before starting the Wizard.' The right sidebar contains 'Helpful Hints...' text.

Click on the VoIP Setup button

Once we have accessed this page you will see all of the required fields in order for the DVG-2101SP to login to your VoIP provider and allow you to make calls.

The screenshot shows the D-Link web interface for the DVG-2101SP. The top navigation bar includes 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists 'Wizard', 'Internet Setup', 'VoIP Setup' (selected), 'Time and Date', and 'Logout'. The main content area is titled 'SIP ACCOUNT LIST' and contains a form with the following fields: 'Phone Port' (dropdown menu), 'Enable' (checkbox), 'Display Name' (text input), 'User Name' (text input), 'Authorization Name' (text input), 'Password' (text input), 'Proxy Server' (text input with port dropdown), 'Backup Proxy Server' (checkbox), 'Outbound Proxy Server' (checkbox), 'Use Domain to Register' (checkbox), and 'Expire Time' (text input with unit dropdown). The right sidebar contains 'Helpful Hints...' text.

Fields required for connection to VoIP Provider

Below we will show a setup example for **FRESHTEL** which will inform you of the required data and settings that need to be configured in order to start making and receiving calls via VoIP.

The screenshot shows the 'SIP ACCOUNT LIST' configuration page in the D-Link router's web interface. The page is titled 'SIP ACCOUNT LIST' and has a 'Phone Port' dropdown set to '1'. The 'Enable' checkbox is checked. The 'Display Name' field contains 'John Doe'. The 'User Name' and 'Authorization Name' fields both contain '<Freshtel Username>'. The 'Password' field is masked with dots. The 'Proxy Server' field contains 'sip.freshtel.net' and '5060'. The 'Backup Proxy Server' checkbox is checked, with the field containing 'sip.freshtel.net' and '5060'. The 'Outbound Proxy Server' checkbox is checked, with the field containing 'sip.freshtel.net' and '5060'. The 'Use Domain to Register' checkbox is checked, with the field containing 'sip.freshtel.net'. The 'Expire Time' field contains '3600' and 'sec'. There are 'Apply' and 'Cancel' buttons at the bottom of the form. The page also includes a 'Helpful Hints...' section on the right and a 'BROADBAND' section at the bottom.

Example of required data for the VoIP connection to be configured

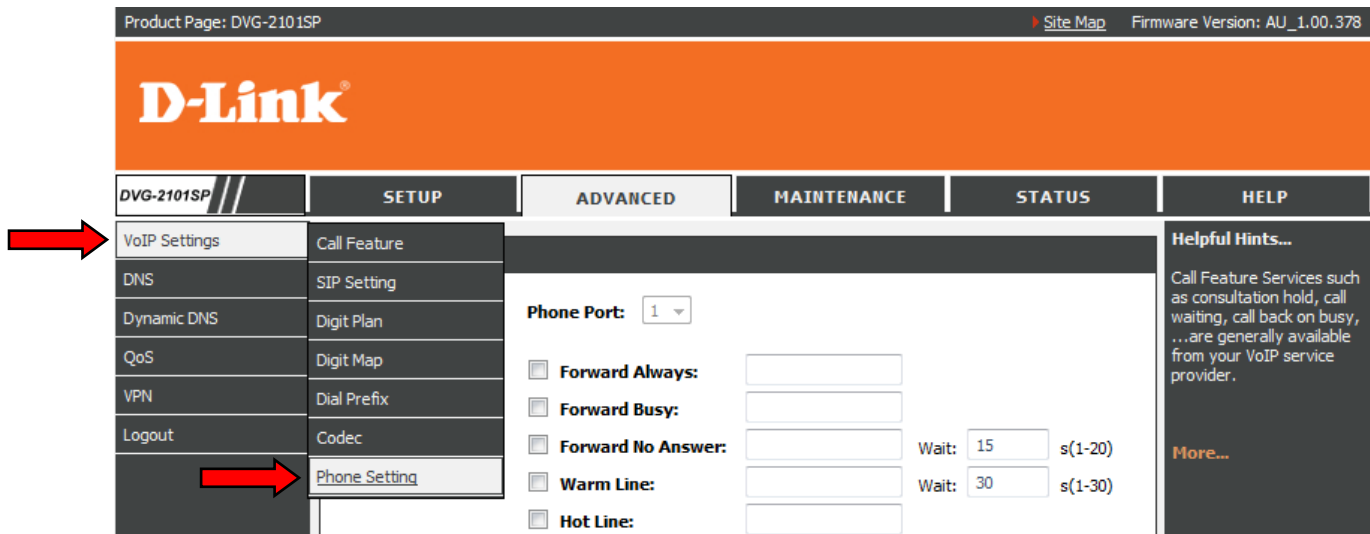
As shown above the below data must be completed in order to establish a connection to your VoIP provider so that you can start to make and receive VoIP calls.

- Enable** Must be ticked in order for the registration to FRESHTEL to occur.
- Display Name** Enter your name or the name you wish to give to this VoIP Connection, may be used as VoIP Caller ID, for more information please contact FRESHTEL or consult the User Manual.
- User Name** Your FRESHTEL VoIP Username, generally your Phone Number. E.g: 88991822
- Authorization Name** Your FRESHTEL VoIP Username, generally your Phone Number. E.g: 88991822
- Password** Your FRESHTEL VoIP Password. E.g: QwErTyUi
- Proxy Server** sip.freshtel.net
- Backup Proxy Server** Tick box and enter the following, sip.freshtel.net
- Outbound Proxy Server** Tick box and enter the following, sip.freshtel.net
- Use Domain to Register** Tick box and enter the following, sip.freshtel.net
- Expire Time** 3600 sec

With the above settings now configured click on the "Apply" button to save these settings and make them active. Once this is completed the unit should now be ready to make VoIP calls.

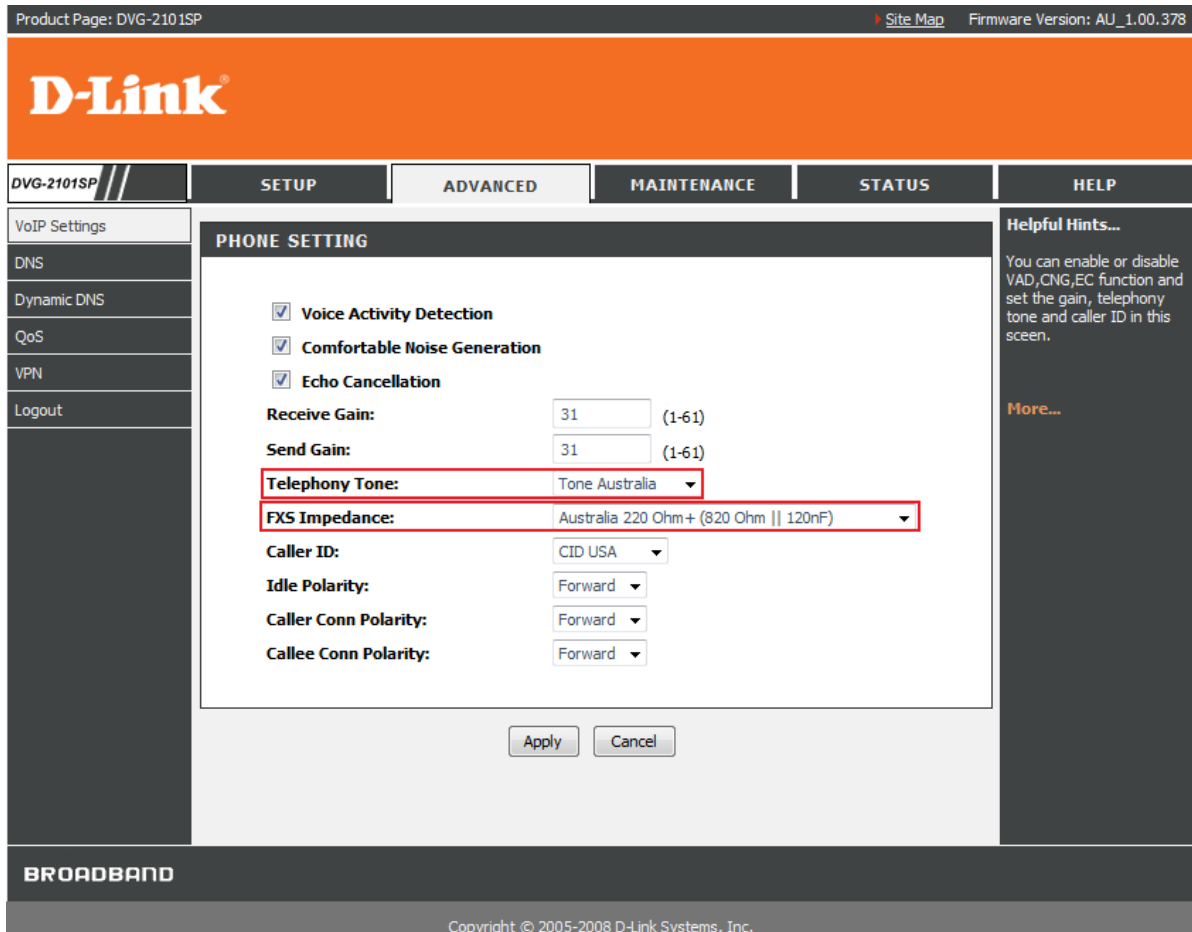
Step 3:

This next step will configure the tone settings when you pick up the phone, just to keep the VoIP side of things similar to what you would find on your regular (PSTN) phone. Hover your mouse over the **VoIP Settings** button in the left hand navigation menu and then click on the **Phone Setting** Button.



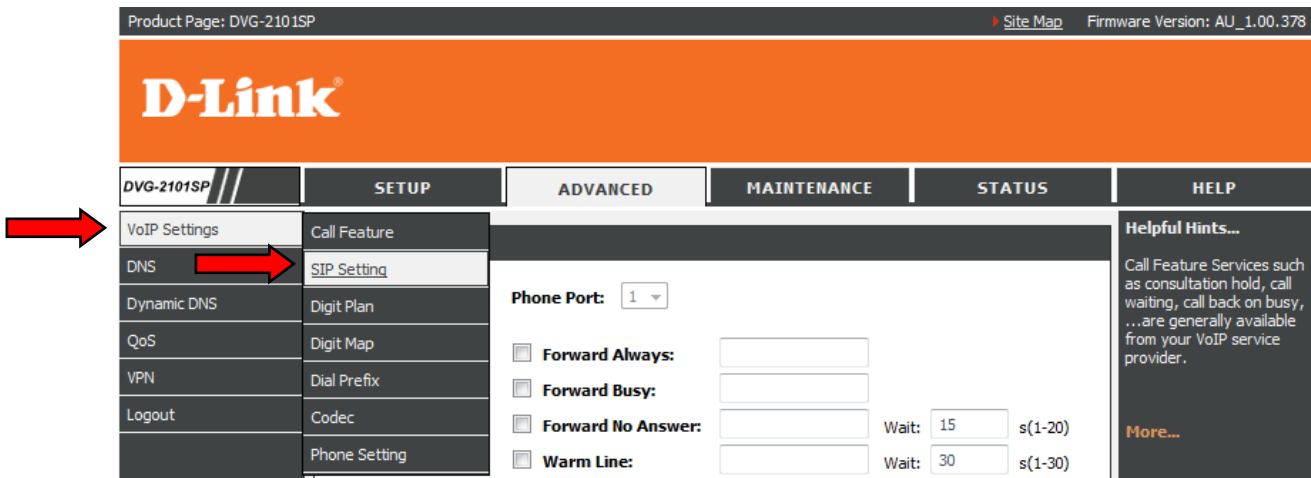
Hover on the VoIP Settings and then Click on the Phone Setting button

Once you have clicked on the Phone Setting button you will see the below. On this page we need to change the two highlighted fields to the Australian setting. This will ensure that the correct tones are transmitted to the handset. The two settings to change are **Telephony Tone** and **FXS Impedance**.



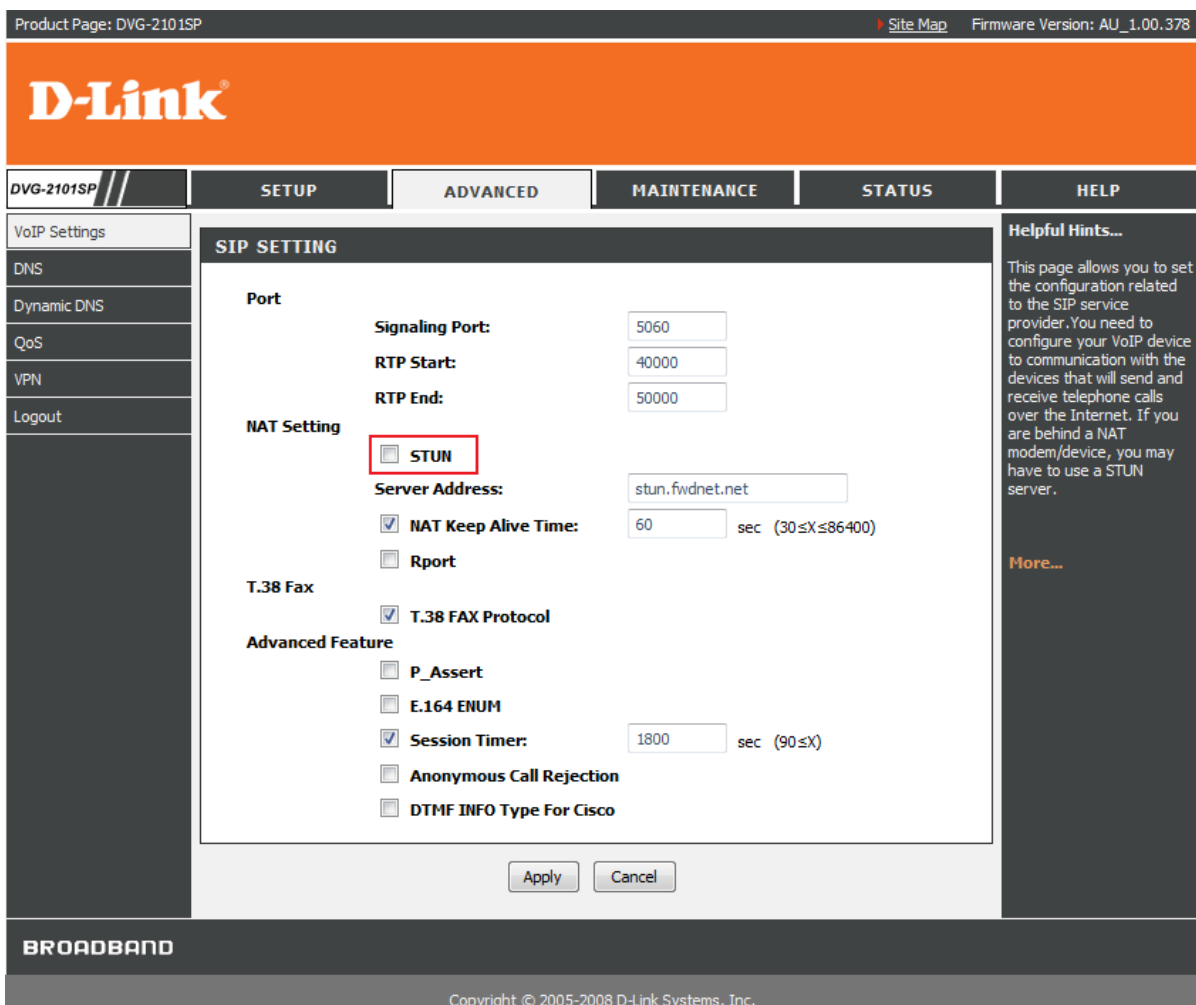
Step 4:

Since FRESHTEL does not support the STUN server feature we will need to disable this in order for the registration to the FRESHTEL server to occur. This can be done by hovering your mouse over the **VoIP Settings** button in the left hand navigation menu and then click on the **SIP Setting** Button.



Hover on the VoIP Settings and then click on the SIP Setting button

On the SIP Setting page we need to remove the tick from the STUN checkbox as shown below. Once this is completed, please make sure you click the "Apply" button at the bottom of the page to save this change.



Remove the checkbox tick from the STUN setting

Step 5:

In this last step we will check to ensure the VoIP Connection is now active and registered to FRESHTEL. This can be done via two methods. The first is looking at the LED display on the front of the unit, if the Registration LED is lit up and stays solid then you have successfully connected and registered to FRESHTEL.



DVG-2101SP LEDs showing a successful registration to the VoIP Provider

The second is done by clicking on the **Status** menu at the top of the Web Interface then the **VoIP Status** button. This will then show the below page.

PHONE PORT STATUS							
No.	Display Name	User Name	Proxy	Status	Remote Host	Start	Elapsed
Phone 1	John Doe	88991811	sip.freshtel.net:5060	Registered			

Phone Port Status - Registered

If you find that under Status it says *Idle* then you may have entered the Username and Password incorrectly, Please refer back to Step 2 in order to reconfigure the VoIP Settings.

PHONE PORT STATUS							
No.	Display Name	User Name	Proxy	Status	Remote Host	Start	Elapsed
Phone 1	John Doe	88991811	sip.freshtel.net:5060	Idle			

Phone Port Status - Idle

Once you have successfully registered with the VoIP Provider you are now ready to make and receive calls via over the Internet using VoIP.

For any complications during this setup please consult the Product's User Manual on the supplied CD. If you are still stuck, please feel free to contact our Technical Support Team.

~End of Document~