



## User Manual

# Dual Band Wireless N750 Gigabit VDSL2+/ADSL2+ Modem

**DSL-2870B**

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## Product Overview

### Package Contents

This product should contain all of the below mentioned items within its packaging:

- One DSL-2870B Wireless ADSL2+ Router
- One Power Adapter
- One CD containing the User Manual
- One twisted-pair telephone cable used for DSL connection
- One straight-through Ethernet cable
- One Quick Installation Guide

If any of the above items are missing, please contact your reseller.

**Note:** Using a power supply with a different voltage rating than the one included with the DSL-2870B will cause damage to this product and void the warranty for this product.



## System Requirements

<b>Network Requirements:</b>	<ul style="list-style-type: none"><li>• Ethernet Adapter at 10/100/1000Mbps.</li><li>• Wireless Adapter with IEEE 802.11n, 802.11a, or 802.11b/g Protocols.</li></ul>
<b>Web User Interface Requirements:</b>	<ul style="list-style-type: none"><li>• Windows®, Macintosh, or Linux-based Operating System.</li><li>• Internet Browser like Internet Explorer 7 or higher, Firefox 3.5 or higher, Safari 4 or higher, or Chrome 8 or higher.</li></ul>
<b>Internet Requirements:</b>	<ul style="list-style-type: none"><li>• ADSL Internet Connection Service from an ISP.</li></ul>

## Features

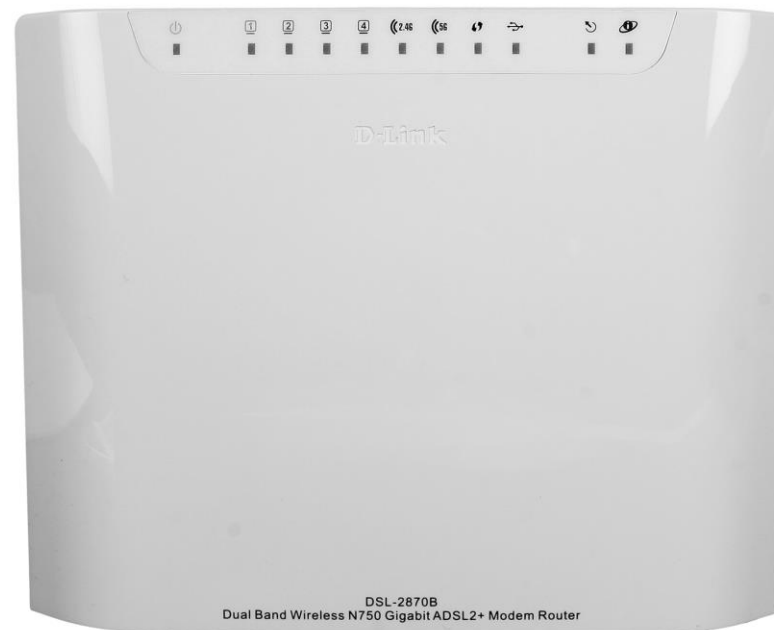
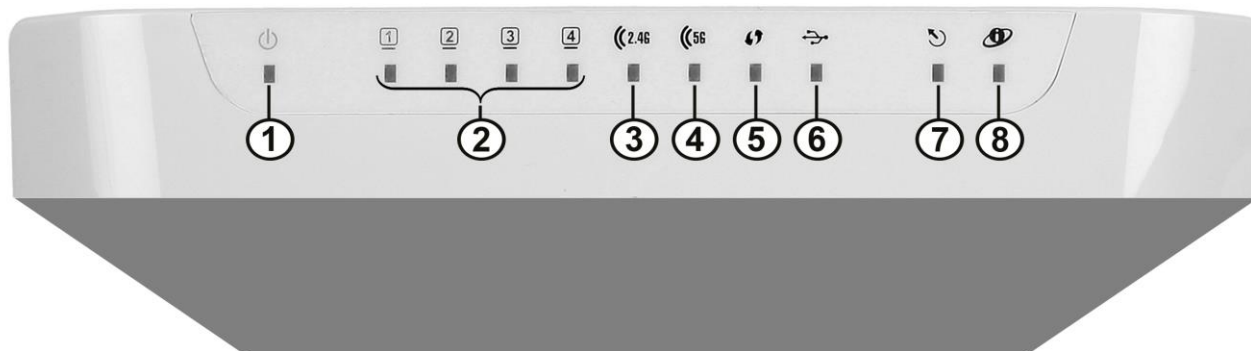
- **Faster Wireless Networking** - The DSL-2870B provides up to 300Mbps\* for the 2.4GHz band and 450Mbps\* for the 5GHz band wireless connection with other 802.11n wireless clients. This capability allows users to participate in real-time activities online, such as video streaming, online gaming, and real-time audio.
- **Compatible with 802.11b and 802.11g Devices** - The DSL-2870B is still fully compatible with the IEEE 802.11b and IEEE 802.11g standards, so it can connect with existing 802.11b and 802.11g PCI, USB and Cardbus adapters.
- **DHCP Support** - Dynamic Host Configuration Protocol automatically and dynamically assigns all LAN IP settings to each host on your network. This eliminates the need to reconfigure every host whenever changes in network topology occur.
- **Network Address Translation (NAT)** - For small office environments, the DSL-2870B allows multiple users on the LAN to access the Internet concurrently through a single Internet account. This provides Internet access to everyone in the office for the price of a single user. NAT improves network security in effect by hiding the private network behind one global and visible IP address. NAT address mapping can also be used to link two IP domains via a LAN-to-LAN connection.
- **Precise ATM Traffic Shaping** - Traffic shaping is a method of controlling the flow rate of ATM data cells. This function helps to establish the Quality of Service for ATM data transfer.
- **High Performance** - Very high rates of data transfer are possible with the router. Up to 24Mbps downstream bit rate using the G.dmt standard. (For ADSL2+)
- **Full Network Management** - The DSL-2870B incorporates SNMP (Simple Network Management Protocol) support for web-based management and text-based network management via a Telnet connection.
- **Easy Installation** - The DSL-2870B uses a web-based graphical user interface program for convenient management access and easy set up. Any common web browsing software can be used to manage this router.
- **USB Support**- The DSL-2870B provides a USB port to easily share files and printers. The DSL-2870B supports a USB storage option that shares files through a SAMBA file server and in addition also supports sharing USB printers to network members. Please note that the USB storage device is not included in this package and must be bought separately.

\* Maximum wireless signal rate derived from IEEE standard 802.11n specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental factors will adversely affect wireless signal range.

## Hardware Overview

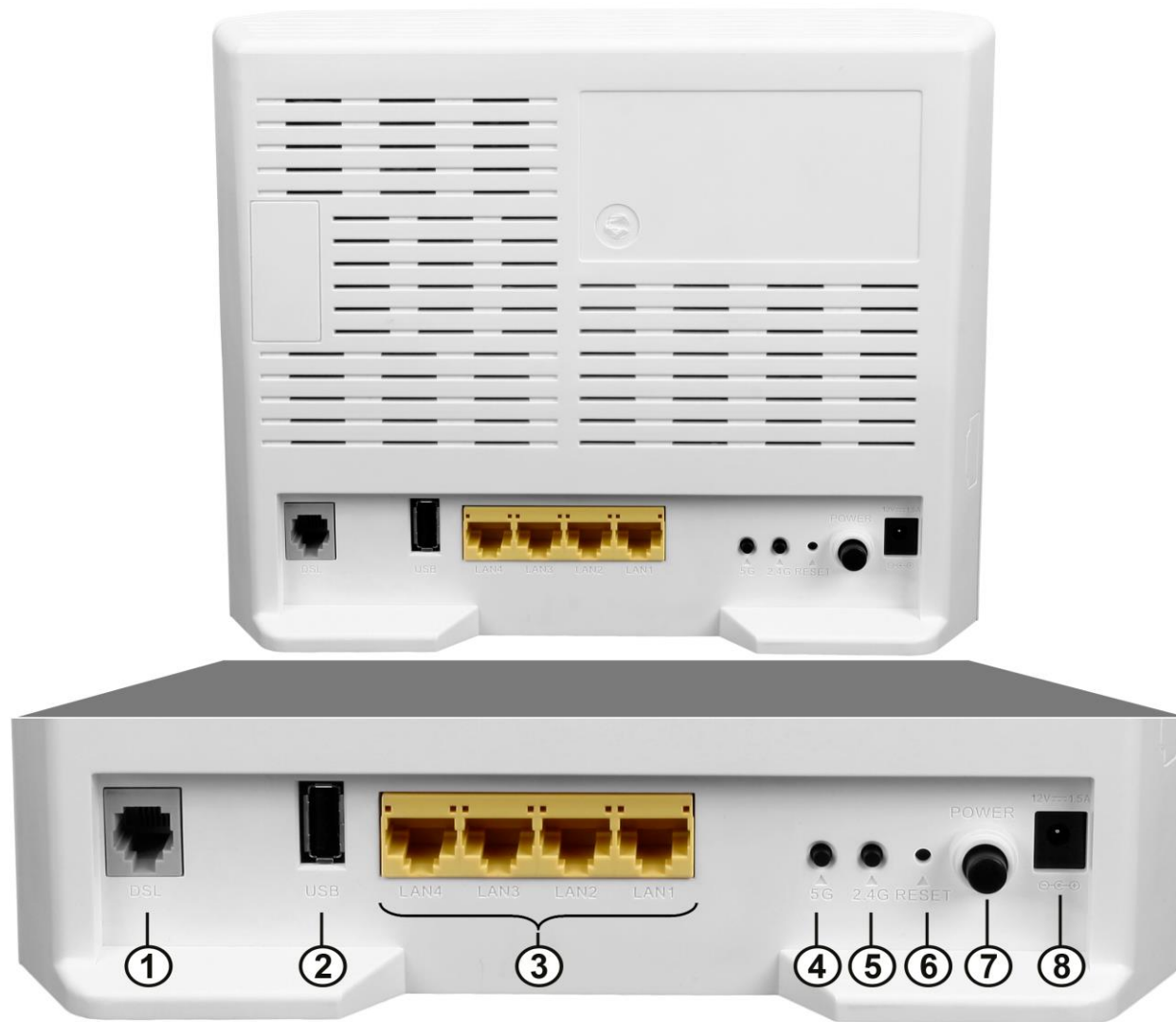
### Front Panel

Number	Description
1	<b>Power</b> - A steady green light indicates the unit is powered on. When the device is powered off this remains dark. During the Power On Self Test this light will be red. If this light remains red after the POST, a malfunction has occurred.
2	<b>LAN</b> - A solid light indicates a valid link on startup. This light will blink when there is activity currently passing through the Ethernet port. A green light will be illuminated for a 10/100Mbps connection and an amber light will be illuminated for a 1000Mbps connection.
3	<b>2.4GHz WLAN</b> - Steady green light indicates a wireless connection. A blinking green light indicates activity on the WLAN
4	<b>5GHz WLAN</b> - Steady green light indicates a wireless connection. A blinking green light indicates activity on the WLAN
5	<b>WPS</b> - The light will flash while a WPS connection is being established. The light will light solid for 5 seconds if a successful WPS connection has been made.
6	<b>USB</b> - Steady green light indicates a successful USB connection. Dark if no USB device is connected.
7	<b>DSL</b> - Steady green light indicates a valid ADSL connection. This will light after the ADSL negotiation process has been settled. A blinking green light indicates activity on the WAN (ADSL) interface.
8	<b>Internet</b> - Steady green light indicates a successful Internet connection. Steady red light indicates failed Internet connection. Dark if no WAN protocol is configured.



## Rear Panel

Number	Description
1	<b>ADSL Port</b> - Use the DSL cable to connect to your telephone line (RJ-11 port).
2	<b>USB Port</b> - Use the USB port to connect your USB device.
3	<b>Ethernet Ports</b> - Use the Ethernet ports to connect the router to your Ethernet LAN or Ethernet devices.
4	<b>5GHz Wireless On/Off Switch Button</b> - Please press and hold on for 3 seconds to turn on/turn off.
5	<b>2.4GHz Wireless On/Off Switch Button</b> - Please press and hold on for 3 seconds to turn on/turn off.
6	<b>Reset Button</b> - Press and hold the button for 10-15 seconds to restore the device to its original factory default settings.
7	<b>Power Button</b> - Push in to power-on the router. Push again to power-off the router.
8	<b>Power Receptor</b> - Receptor for the supplied power adapter.



## Basic Installation

This section will walk you through the installation process. Placement of the router is very important. Do not place the router in an enclosed area such as a closet, cabinet, or in the attic or garage.

## Before You Begin

Please read and make sure you understand all the prerequisites for proper installation of your new router. Have all the necessary information and equipment on hand before beginning the installation.

## Installation Notes

In order to establish a connection to the Internet it will be necessary to provide information to the router that will be stored in its memory. For some users, only their account information (Username and Password) is required. For others, various parameters that control and define the Internet connection will be required.

### **Low Pass Filters**

Since ADSL and telephone services share the same copper wiring to carry their respective signals, a filtering mechanism may be necessary to avoid mutual interference. A low pass filter device can be installed for each telephone that shares the line with the ADSL line. These filters are easy to install passive devices that connect to the ADSL device and/or telephone using standard telephone cable. Ask your service provider for more information about the use of low pass filters with your installation.

### **Operating Systems**

The DSL-2870B uses an HTML-based web interface for setup and management. The Web configuration manager may be accessed using any operating system capable of running web browser software, including Windows<sup>®</sup>, Macintosh, and Linux-based Operating Systems.

### **Web Browser**

Any common Web browser can be used to configure the router using the Web configuration management software. The program is designed to work best with more recently released browsers such as Internet Explorer 7 or higher, Firefox 3.5 or higher, Safari 4 or higher, or Chrome 8 or higher.. The Web browser must have JavaScript enabled. JavaScript is enabled by default on many browsers. Make sure JavaScript has not been disabled by other software (such as virus protection or web user security packages) that may be running on your computer.

### **Ethernet Port (NIC Adapter)**

Any computer that uses the router must be able to connect to it through one of the Ethernet ports on the router. This connection is an Ethernet connection and therefore requires that your computer be equipped with an Ethernet port as well. Most notebook computers are now sold with an Ethernet port already installed. Likewise, most fully assembled desktop computers come with an Ethernet adapter as standard equipment. If your computer does not have an Ethernet port, you must install an Ethernet NIC adapter before you can use the router. If you must install an adapter, follow the installation instructions that come with the Ethernet NIC adapter.



### **Additional Software**

It may be necessary to install software on your computer that enables the computer to access the Internet. Additional software must be installed if you are using the device a simple bridge. For a bridged connection, the information needed to make and maintain the Internet connection is stored on another computer or gateway device, not in the router itself.

If your ADSL service is delivered through a PPPoE or PPPoA connection, the information needed to establish and maintain the Internet connection can be stored in the router. In this case, it is not necessary to install software on your computer. It may however be necessary to change some settings in the device, including account information used to identify and verify the connection.

All connections to the Internet require a unique global IP address. For bridged connections, the global IP settings must reside in a TCP/IP enabled device on the LAN side of the bridge, such as a PC, a server, a gateway device such as a router or similar firewall hardware. The IP address can be assigned in a number of ways. Your network service provider will give you instructions about any additional connection software or NIC configuration that may be required.

## Information you will need from your ADSL service provider

### **Username**

This is the Username used to log on to your ADSL service provider's network. Your ADSL service provider uses this to identify your account.

### **Password**

This is the Password used, in conjunction with the Username above, to log on to your ADSL service provider's network. This is used to verify the identity of your account.

### **WAN Setting / Connection Type**

These settings describe the method your ADSL service provider uses to transport data between the Internet and your computer. Most users will use the default settings. You may need to specify one of the following WAN Setting and Connection Type configurations (Connection Type settings listed in parenthesis):

- PPPoE/PPPoA (PPPoE LLC, PPPoE VC-Mux, PPPoA LLC or PPPoA VC-Mux)
- Static IP Address (1483 Routed IP LLC or 1483 Routed IP VC-Mux)
- Bridge Mode (1483 Bridged IP LLC or 1483 Bridged IP VC Mux)

### **Modulation Type**

ADSL uses various standardized modulation techniques to transmit data over the allotted signal frequencies. Some users may need to change the type of modulation used for their service. The default DSL modulation (Autosense) used for the router automatically detects all types of ADSL, ADSL2, and ADSL2+ modulation.

### **Security Protocol**

This is the method your ADSL service provider will use to verify your Username and Password when you log on to their network. Your router supports the PAP and CHAP protocols.

### **VPI**

Most users will not be required to change this setting. The Virtual Path Identifier (VPI) is used in conjunction with the Virtual Channel Identifier (VCI) to identify the data path between your ADSL service provider's network and your computer. If you are setting up the router for multiple virtual connections, you will need to configure the VPI and VCI as instructed by your ADSL service provider for the additional connections. This setting can be changed in the WAN Settings window of the web management interface.

### **VCI**

Most users will not be required to change this setting. The Virtual Channel Identifier (VCI) used in conjunction with the VPI to identify the data path between your ADSL service provider's network and your computer. If you are setting up the router for multiple virtual connections, you will need to configure the VPI and VCI as instructed by your ADSL service provider for the additional connections. This setting can be changed in the WAN Settings window of the web management interface.

## Information you will need about this Router

### Username

This is the Username needed access the router's web management interface. When you attempt to connect to the device through a web browser you will be prompted to enter this Username. The default Username for the router is **"admin"**.

### Password

This is the Password you will be prompted to enter when you access the router's web management interface. The default Password is **"admin"**.

### LAN IP Addresses for the DSL-2870B

This is the IP address you will enter into the Address field of your web browser to access the router's configuration Graphical User Interface (GUI) using a web browser. The default IP address is **192.168.1.1**. This may be changed to suit any IP address scheme the user desires. This address will be the base IP address used for DHCP service on the LAN when DHCP is enabled.

### LAN Subnet Mask for the DSL-2870B

This is the subnet mask used by the DSL-2870B, and will be used throughout your LAN. The default subnet mask is **255.255.255.0**. This can be changed later.

## Information you will need about your LAN or computer

### Ethernet NIC

If your computer has an Ethernet NIC, you can connect the DSL-2870B to this Ethernet port using an Ethernet cable. You can also use the Ethernet ports on the DSL-2870B to connect to other computer or Ethernet devices.

### DHCP Client status

Your DSL-2870B ADSL router is configured, by default, to be a DHCP server. This means that it can assign an IP address, subnet mask, and a default gateway address to computers on your LAN. The default range of IP addresses the DSL-2870B will assign are from **192.168.1.2 to 192.168.1.254**. Your computer (or computers) needs to be configured to obtain an IP address automatically (that is, they need to be configured as DHCP clients.)

Once you have the above information, you are ready to setup and configure your DSL-2870B ADSL router.

## Device Installation

The DSL-2870B connects two separate physical interfaces, an ADSL (WAN) and an Ethernet (LAN) interface. Place the router in a location where it can be connected to the various devices as well as to a power source. The router should not be located where it will be exposed to moisture or excessive heat. Make sure the cables and power cord are placed safely out of the way so they do not create a tripping hazard. As with any electrical appliance, observe common sense safety procedures.

The router can be placed on a shelf or desktop, ideally you should be able to see the LED indicators on the front if you need to view them for troubleshooting.

## Power on Router

The router must be used with the power adapter included with the device.

1. Insert the AC Power Adapter cord into the power receptacle located on the rear panel of the router and plug the adapter into a suitable nearby power source.
2. Press the Power button into the on position. You should see the Power LED indicator light up and remain lit.
3. If the Ethernet port is connected to a working device, check the Ethernet LED indicators to make sure the connection is valid. The router will attempt to establish the ADSL connection, if the ADSL line is connected and the router is properly configured this should light up after several seconds. If this is the first time installing the device, some settings may need to be changed before the router can establish a connection.

## Factory Reset Button

The router may be reset to the original factory default settings by using a ballpoint pen or paperclip to gently push down the reset button in the following sequence:

1. Press and hold the reset button while the device is powered on for 10-15 seconds.
2. Release the reset button.

Remember that this will wipe out any settings stored in flash memory including user account information and LAN IP settings. The device settings will be restored to the factory default IP address **192.168.1.1** and the subnet mask is **255.255.255.0**. The default management username is **“admin”** and the default password is **“admin”**.

## Network Connections

### **Connect ADSL Line**

Use the ADSL cable included with the router to connect it to a telephone wall socket or receptacle. Plug one end of the cable into the ADSL port (RJ-11 receptacle) on the rear panel of the router and insert the other end into the RJ-11 wall socket. If you are using a low pass filter device, follow the instructions included with the device or given to you by your service provider. The ADSL connection represents the WAN interface, the connection to the Internet. It is the physical link to the service provider's network backbone and ultimately to the Internet.

### **Connect Router to Ethernet**

The router may be connected to a single computer or Ethernet device through the Ethernet ports on the rear panel. Any connection to an Ethernet concentrating device such as a switch or hub must operate at a speed of 10/100/1000Mbps. When connecting the router to any Ethernet device that is capable of operating at speeds higher than 10Mbps, be sure that the device has auto-negotiation (NWay) enabled for the connecting port. Use standard twisted-pair cable with RJ-45 connectors. The RJ-45 ports on the router are a crossed port (MDI-X). Follow standard Ethernet guidelines when deciding what type of cable to use to make this connection. When connecting the router directly to a PC or server use a normal straight-through cable. You should use a crossed cable when connecting the router to a normal (MDI-X) port on a switch or hub. Use a normal straight-through cable when connecting it to an uplink (MDI-II) port on a hub or switch. The rules governing Ethernet cable lengths apply to the LAN to router connection. Be sure that the cable connecting the LAN to the router does not exceed 100 meters.

### **Hub or Switch to Router Connection**

Connect the router to an uplink port (MDI-II) on an Ethernet hub or switch with a straight-through cable. If you wish to reserve the uplink port on the switch or hub for another device, connect to any on the other MDI-X ports (1x, 2x, etc.) with a crossed cable.

### **Computer to Router Connection**

You can connect the router directly to an Ethernet adapter card (NIC) installed on a PC using the Ethernet cable provided.

## D-Link One-Touch APP

D-Link offers you a fast and easy way to get connected, by utilizing the free One-Touch APP for your Android or iOS mobile device which walks you step-by-step through installation of your D-Link One-Touch enabled device.

You also have the ability to configure/change WAN and Wi-Fi settings and even upgrade the firmware.

You can search for the D-Link One-Touch APP directly in the Google Play or iOS APP Store, and install it.

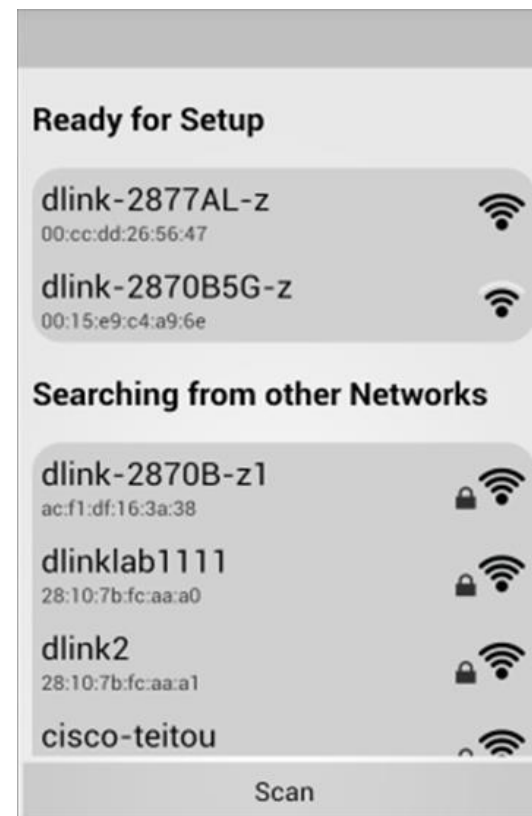
The D-Link One-Touch icon will be displayed in the mobile device (Android, iOS).

**Note:**

- The following steps are for the Android version of the app.
- From your iOS mobile device, choose **Settings**, and Click **Wi-Fi**, select the Wi-Fi Network Name that you created during setup and then enter default Wi-Fi password located on your Wi-Fi configuration note.

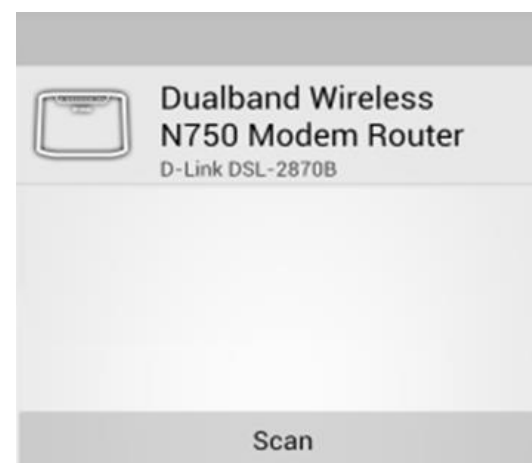


1. Tap on the One-Touch icon, the following screen will appear.



2. Tap the Wi-Fi Network Name to select the router.

If your Wi-Fi Network Name is not shown here, you can tap the **Scan** button to re-search.



3. Tap the Wi-Fi Network Name to configure or upgrade the router.

Here contains two functions:

- [Network Starter](#) - the function is mainly to configure WAN and Wi-Fi settings of the router.
- [Software Upgrader](#) - the function is mainly to upgrade the firmware for the router.

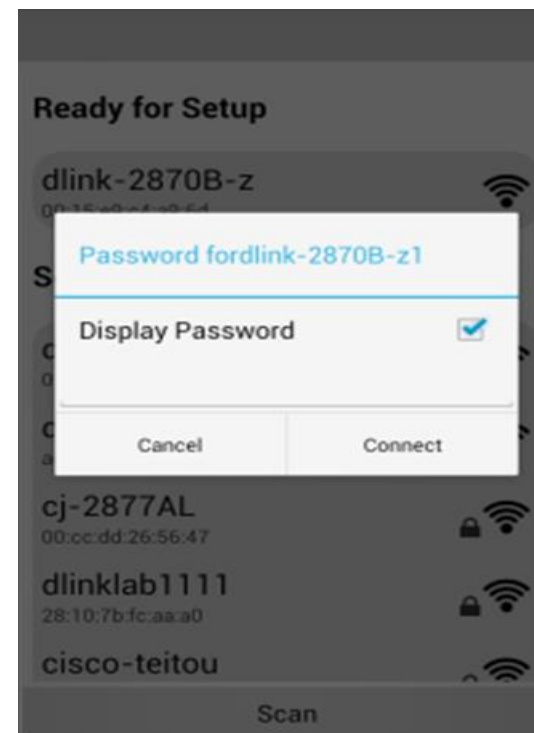




## Network Starter

1. Tap the **Network Starter** to configure WAN or Wi-Fi settings for the router.

If your mobile device has saved the router's wireless password, it will be automatically associated to your router, otherwise D-Link One Touch will pop-up a password dialog, you need enter correct Wi-Fi password and tap **Connect** button associate your router.



2. The D-Link One Touch will login router, if login router is fail, the D-Link One touch will pop-up a login UI, you need enter correct username and password to login the router.



Dualband Wireless N750

Login Required

Username

Password

Display Password

Cancel Login

3. Modify the device Name, login password and operation mode.


**Device Name:** The user changes the device name; the main title beside the ICON also will be changed.

**Password:** the login password can't be empty and "admin" and the password string length should be between 4 – 24 characters.

**Note:** If the router setting is factory default setting, the D-Link One Touch will provide a random string to login password; users can also modify the login password.

**Operation Mode:** Select the operation mode for the router, DSL-2870B has only one operation mode: **Router**

Click **Next** button to configure Country, Operator, and PPPoA or PPPoE username, password for the router.



Network Starter

Dualband Wireless N750 Modem Router  
D-Link DSL-2870B  
Version 2.01.00

Device Name

Password

Operation Mode

Next

4. Selecting your country and ISP provider from dropdown boxes, and enters PPPoE or PPPoA username and password.

**Country:** Select your country in this drop-down menu, you can select one of two country options. They are **Australia** and **New Zealand**.

**Operator:** After selecting a country in the previous option, a list of ISP connections will be available here. If your ISP is in the list, select it here and the correct parameters will be set.

**IP:** Displays the public IP address here.

**Netmask:** Displays the public Netmask here.

**Gateway:** Displays the public gateway here.

**DNS:** Displays the DNS address here.

**Username:** Enter the PPPoE or PPPoA username for your ADSL account.

**Password:** Enter the PPPoE or PPPoA password for your ADSL account.

Click **Next** button to configure the wireless settings.

The screenshot shows a 'Network Starter' configuration window. It contains two sections of dropdown menus and a section of text input fields. The first section has 'Country' set to 'Australia' and 'Operator' set to 'AAPT'. The second section displays network parameters: IP (10.1.1.109), Netmask (255.255.255.255), Gateway (10.1.1.59), and DNS (202.96.209.5). The third section has 'Username' and 'Password' both set to 'test'. A 'Next' button is located at the bottom of the window.

Network Starter	
Country	Australia
Operator	AAPT
IP	10.1.1.109
Netmask	255.255.255.255
Gateway	10.1.1.59
DNS	202.96.209.5
Username	test
Password	test
Next	

5. Configure the wireless 2.4G and the wireless 5G for the router.

Tap the **ON** button to enable the wireless 2.4G

**Wireless Name:** Displays the wireless name for your 2.4G wireless network.

**Encryption Mode:** You can select the **None**, **WPA2** and **WPAWPA2** encryption mode.

**Encryption Key:** Enter the password for your 2.4G wireless network.

Tap the **ON** button to enable the wireless 5G

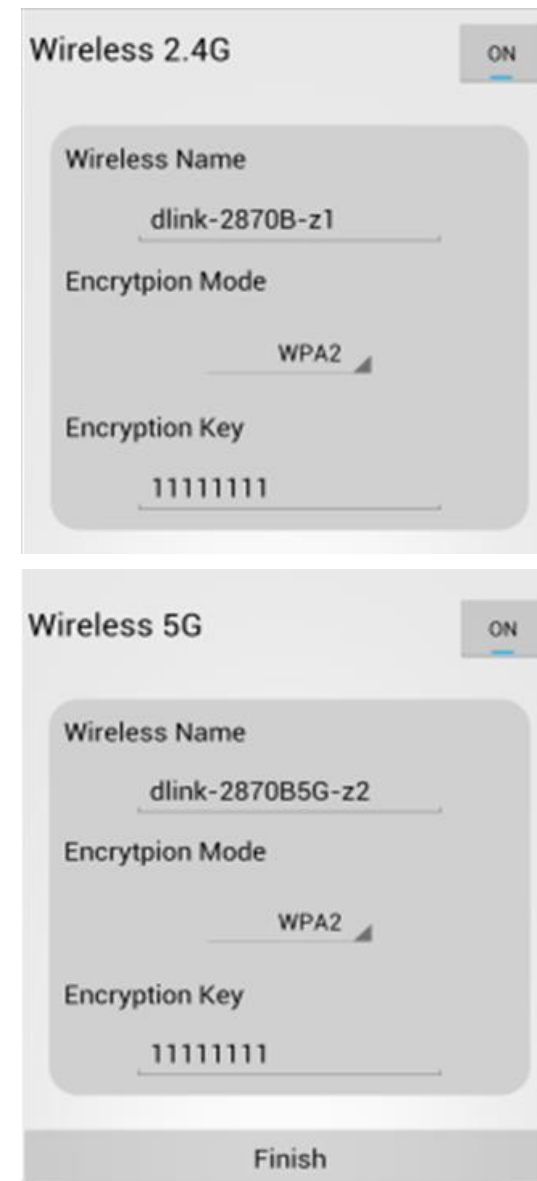
**Wireless Name:** Displays the wireless name for your 5G wireless network.

**Encryption Mode:** You can select the **None**, **WPA2** and **WPAWPA2** encryption mode.

**Encryption Key:** Enter the password for your 5G wireless network.

Tap **Finish** button to commit the configuration, and Configuration Successfully dialog will be pop-up. Tap the **Ok** button of the dialog, the **Wi-Fi Profile** will be saved to D-Link One Touch installation directory.

**Note:** If the router setting is factory default setting, the D-Link One Touch will provide a random string to the Wireless Name and Encryption Key, the default Encryption mode is set to WPAWPA2.

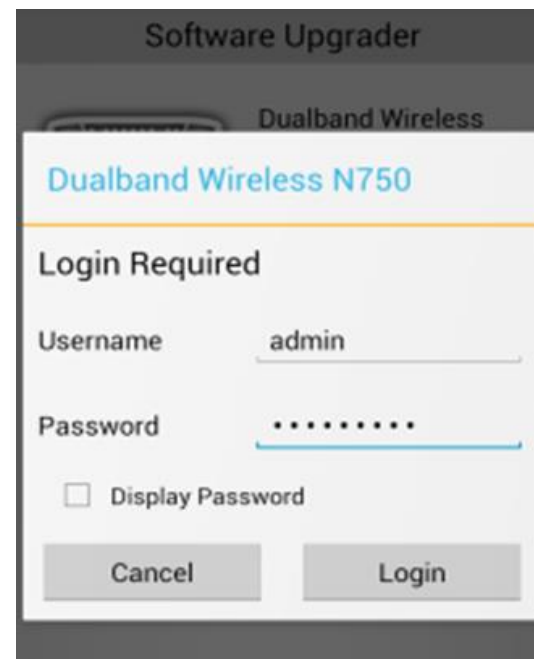
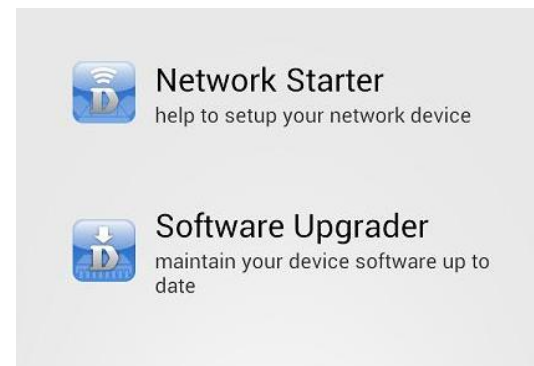


## Software Upgrader

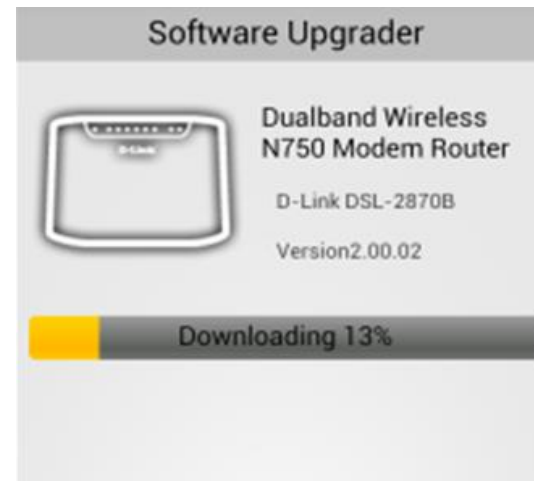
1. Tap the **Software Upgrader** to start upgrade firmware for router.

**Note:** When performing a firmware upgrade, you need to make sure that the router or mobile device can access internet.

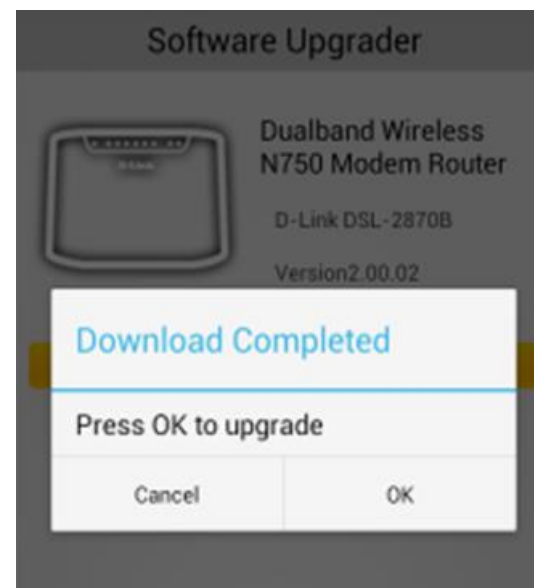
2. The D-Link One Touch will login router, if login router is fail, the D-Link One touch will pop-up a login UI, you need enter correct username and password to login the router.



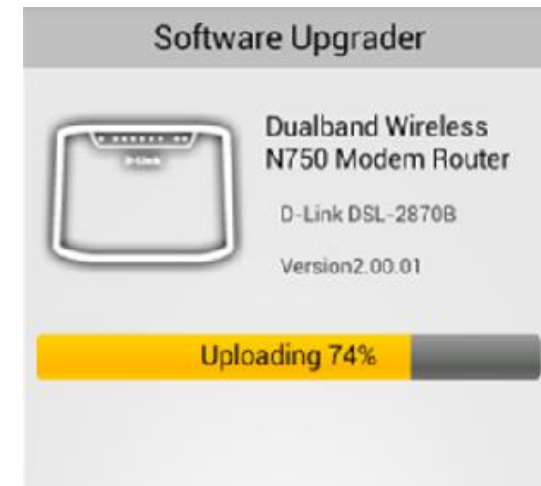
3. If the router is not the latest firmware version, then D-Link One Touch will download it.



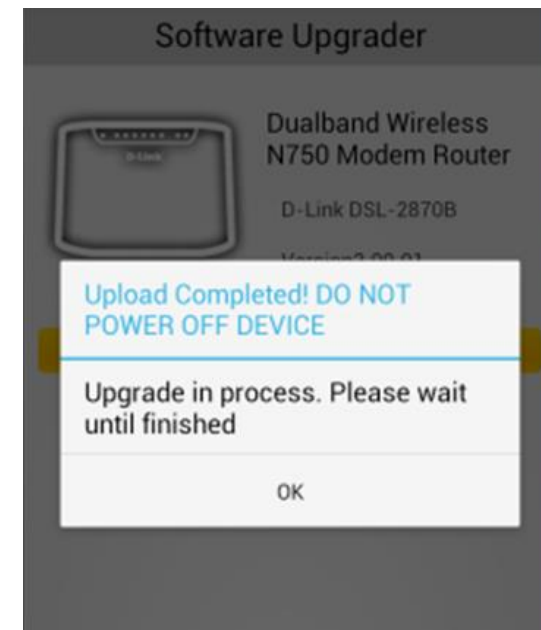
4. The latest firmware download is complete; the Download Completed dialog will be pop-up, tap **OK** button to upgrade the latest firmware for the router.



5. Uploading the firmware for the router.



6. Upload Completed dialog will be pop-up, tap **OK** button to exit the D-Link One Touch, and wait a few minutes for the firmware upgrade is complete.



## Getting Started

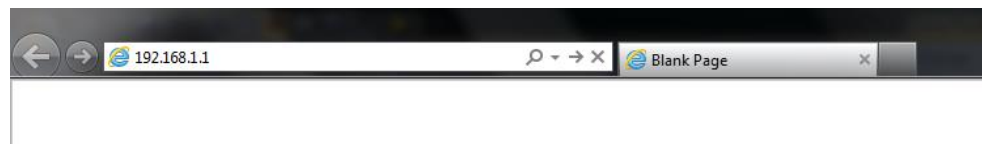
This section will show you how to set up and configure your new D-Link router using the Web-based configuration utility.

### How to connect to the Web User Interface

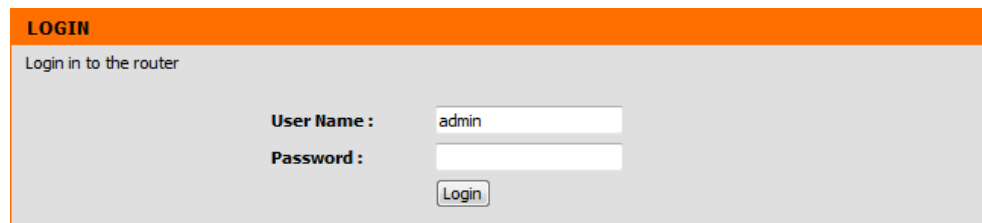
#### Connect to the Router

To configure the WAN connection used by the router it is first necessary to communicate with the router through its management interface, which is HTML-based and can be accessed using a web browser. The easiest way to make sure your computer has the correct IP settings is to configure it to use the DHCP server in the router.

To access the web user interface, open a web-browser such as Internet Explorer and enter the IP address of the router (**192.168.1.1**) into the address bar and press the *Enter* key on your keyboard.



Type "**admin**" in the User Name field and "**admin**" in the Password field, and click the **Login** button to proceed. If you get a *Page Cannot be Displayed* error, please refer to the Troubleshooting section for assistance.





# Web User Interface Configuration

After successfully logging into the Web User Interface, the following page will be displayed. This page is divided into clickable components that make the configuration of this device easier and more understandable.

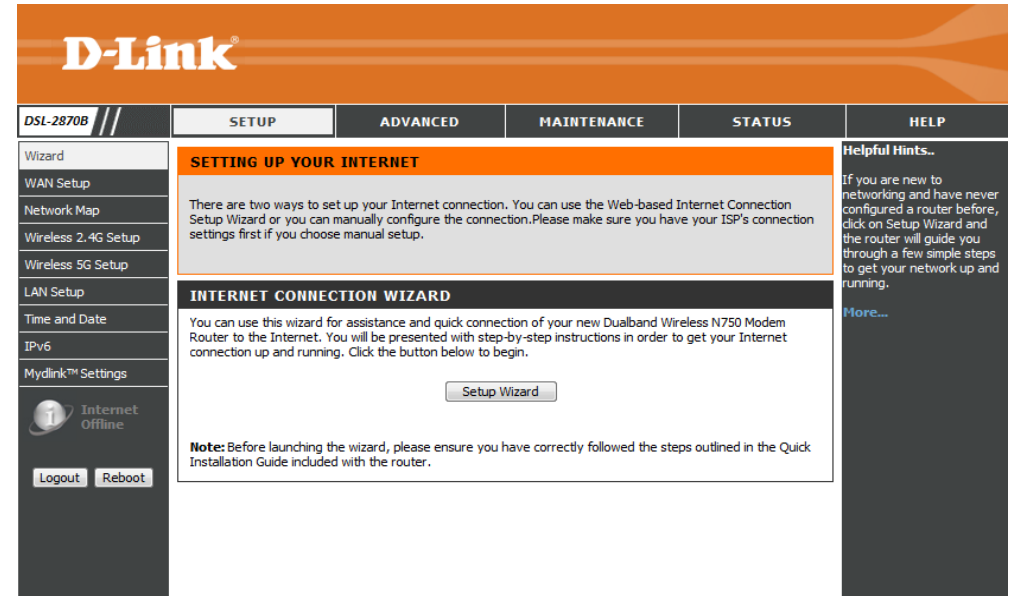
The top menu lists out the **Categories** available for configuration. The categories available to configure on this device are **Setup**, **Advanced**, **Maintenance**, **Status** and **Help**.

The left menu lists out the **Pages** available, for each individual category, for configuration. In this example, we observe the pages available in the **Setup** category. The pages available here are **Wizard**, **WAN Service**, **Wireless 2.4G**, **Wireless 5G**, **Local Network**, **IPv6 Autoconfig**, and **Time and Date**.

Every category will have an **Internet Offline** option at the bottom of all the pages. This option can be used to display the internet status.

Every category will have a **Logout** option at the bottom of all the pages. This option can be used to log out from the web user interface and also close the browser.

Every category will have a **Reboot** option at the bottom of all the pages. This option can be used to reboot the router.



## Setup Category

The **Setup** category is designed to assist the user with essential configurations, concerning the initial setup of this product.

The following pages can be found in the **Setup** category:

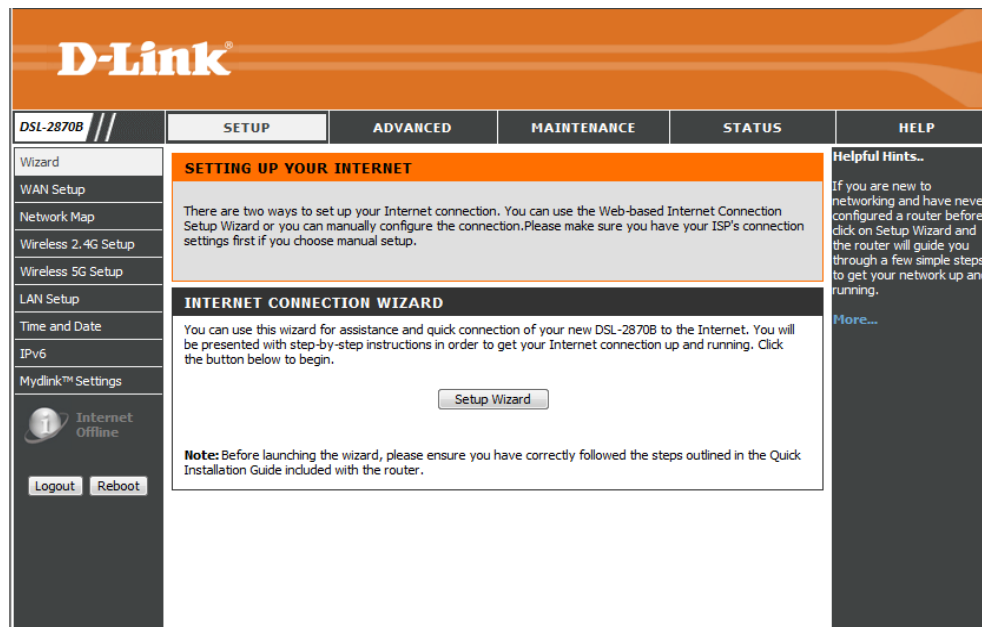
- [Wizard](#) – On this page the user can easily configure some essential settings available on this router by following a step-by-step wizard.
- [WAN Setup](#) – On this page the user can configure services related to the WAN connectivity of this product.
- [Network Map](#) – On this page the user can display the network map.
- [Wireless 2.4G Setup](#) – On this page the user can configure services related to the Wireless 2.4GHz connectivity of this product.
- [Wireless 5G Setup](#) – On this page the user can configure services related to the Wireless 5GHz connectivity of this product.
- [LAN Setup](#) – On this page the user can configure services related to the LAN connectivity of this product.
- [Time and Date](#) – On this page, the user can configure services related to the time and date feature of this product. **Time Servers** and a **Time Zone** can be specified here.
- [IPv6](#) – On this page the user can configure services related to the IPv6 connectivity of this product.
- [Mydlink™ Settings](#) – On this page the user can configure services related to the mydlink settings connectivity of this product.

The screenshot displays the D-Link web interface for the DSL-2870B router. The top navigation bar includes the D-Link logo and tabs for 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'SETUP' tab is selected, showing a sidebar menu with options: Wizard, WAN Setup, Network Map, Wireless 2.4G Setup, Wireless 5G Setup, LAN Setup, Time and Date, IPv6, and Mydlink™ Settings. The main content area is titled 'SETTING UP YOUR INTERNET' and features an 'INTERNET CONNECTION WIZARD' section with a 'Setup Wizard' button. A 'Helpful Hints..' section on the right provides additional guidance.

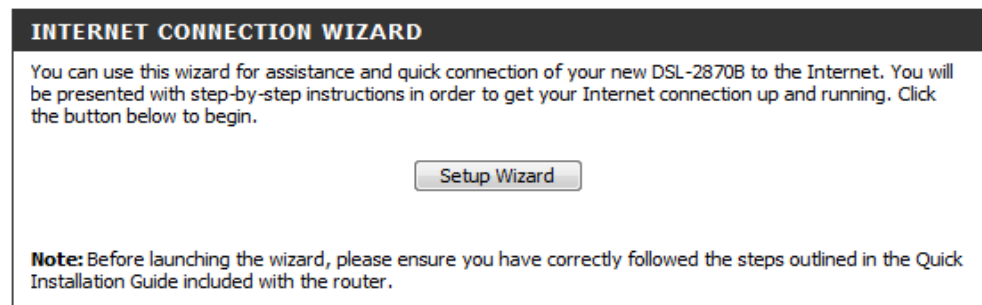
## Wizard

To access the **Wizard** page, click on the **Setup** menu link, at the top, and then click on the **Wizard** menu link, on the left.

On this page the user can easily configure some essential settings available on this router by following a step-by-step wizard.



Click on the **Setup Wizard** button to initiate the setup wizard.



## Welcome to the Setup Wizard

This wizard will guide user through a step-by-step wizard, divided into 6 steps, to configure this router and to connect to the Internet.

Click the **Next** button to continue to the next page.

Click the **Cancel** button to discard the changes made and return to the main page.



**WELCOME TO THE SETUP WIZARD**

Welcome to the Setup Wizard:

- Step 1: Set your password
- Step 2: Select your Time Zone
- Step 3: Configure your internet connection
- Step 4: Name your Wireless Network
- Step 5: Secure your Wireless Network
- Step 6: Set your Wireless Security Password
- Step 7: Setup mylink™ Cloud Services

Prev Next Cancel Connect

## Step 1: SET YOUR PASSWORD


In this step, the user can configure the web user interface login password. Enter the **Password** and **Verify Password** here.

Click the **Prev** button to discard the changes made and return to the previous page.

Click the **Next** button to continue to the next page..

Click the **Cancel** button to discard the changes made and return to the main page.

Click the **Connect** button to connect to the router



**STEP 1: SET YOUR PASSWORD**

To secure your new networking device, please set and verify a password below:

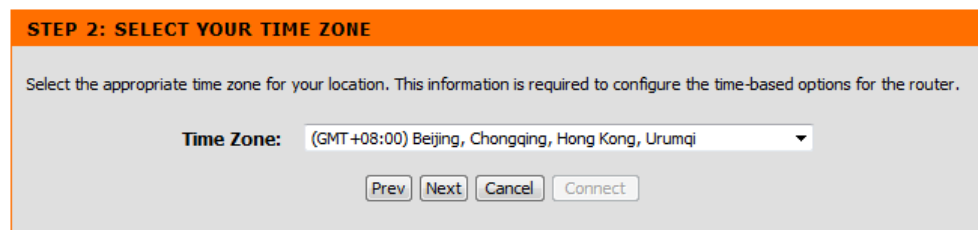
**Password :**

**Verify Password :**

Prev Next Cancel Connect

## Step 2: Set YOUR TIME ZONE

In this step the user can configure the time zone settings that will be used by this router.



**STEP 2: SELECT YOUR TIME ZONE**

Select the appropriate time zone for your location. This information is required to configure the time-based options for the router.

**Time Zone:** (GMT+08:00) Beijing, Chongqing, Hong Kong, Urumqi

Prev Next Cancel Connect

### Step 3: CONFIGURE YOUR INTERNET CONNECTION

In this step, the user can configure the Internet connection settings used by this router.

In this section, we can configure the following parameters.

**WAN Mode:** In this drop-down menu, the user can select WAN mode. They are **ADSL Router**, **VDSL Router** and **Residential Gateway (NBN/UFB Mode)**.

**Country:** In this drop-down menu, the user can select the country options. It is **New Zealand**. To manually configure this connection, the user can choose the third option called **Other**.

**Internet Service Provider:** After selecting a country, in the previous option, a list of ISP connections will be available here. If your ISP is in the list, select it here and the correct parameters will be entered for the rest of the page. However, if your ISP is not listed here, you can choose the **Other** option.

**Protocol:** Select the appropriate protocol to use here. Options to choose from are **Dynamic IP Address**, **Static IP Address**, **PPPoE** and **Bridge Mode**.

**WAN Type:** Select the appropriate WAN type to use here. Options to choose from are **Default** and **VLAN-Mux**.

**VLAN ID:** Enter the VLAN ID value for your ISP here.

**VLAN Prio:** Enter the VLAN Prio value for your ISP here.

**MTU:** Enter the maximum transmission unites.

Click the **Prev** button to discard the changes made and return to the previous page.

Click the **Next** button to continue to the next page.

Click the **Cancel** button to discard the changes made and return to the main page.

#### SET PPPOA

In this section, we can enter PPPoA information provided to you by your ISP.

**User Name:** Enter the user name.

**Password:** Enter the password.

**Confirm Password:** Enter the confirm password.

Click the **Prev** button to discard the changes made and return to the previous page.

Click the **Next** button to continue to the next page.

**STEP 3: CONFIGURE YOUR INTERNET CONNECTION**

Please select your Country and ISP (Internet Service Provider) from the list below. If your Country or ISP is not in the list, please select 'Others'.

If the WAN mode changed, the device must be rebooted to take effect.

**WAN Mode :** VDSL Router

**Country :** New Zealand

**Internet Service Provider :** Snap!

**Protocol :** PPPoE

**WAN Type :** VLAN Mux

**VLAN ID :** 10

**VLAN Prio :** 0

**MTU :** 1492

Prev Next Cancel

**SET PPPOA**

Enter the PPPoA information provided to you by your ISP. Click Next to continue.

**User Name :** test

**Password :** ●●●●

**Confirm Password :** ●●●●

Prev Next Cancel

Click the **Cancel** button to discard the changes made and return to the main page.

#### **Step 4: Configure Wireless Netw**

In this step, the user can configure the wireless configuration for this router.

In this section we can configure the following parameters.

**2.4G Wireless Network Name (SSID):** In this textbox, we can enter the wireless networks name (SSID) for the wireless network, hosted by this router. This name will be visible for all wireless clients to see before initiating a connection to this router.

**5G Wireless Network Name (SSID):** In this textbox, we can enter the wireless networks name (SSID) for the wireless network, hosted by this router. This name will be visible for all wireless clients to see before initiating a connection to this router

Click the **Prev** button to discard the changes made and return to the previous page.

Click the **Next** button to continue to the next page.

Click the **Cancel** button to discard the changes made and return to the main page.

Click the **Connect** button to connect to the router

#### **Step 5: SECURE YOUR WIRELESS NETWORK**

In this step, we can configure the wireless network security settings for this router here.

In this section, we can configure the following parameters.

**BEST:** Select this option if your wireless adapters SUPPORT WPA2

**BETTER:** Select this option if your wireless adapters SUPPORT WPA

**GOOD:** Select this option if your wireless adapters DO NOT SUPPORT WPA

**NONE:** Select this option if your do not want to activate any security featur

Click **Prev** button to discard the changes made and return to the previous page.

Click the **Next** button to continue to the next page.

Click the **Cancel** button to discard the changes made and return to the main page.

Click the **Connect** button to connect to the router

The screenshot shows a configuration page titled "STEP 4: NAME YOUR WIRELESS NETWORK". It contains a paragraph of text explaining that a wireless network needs a name for recognition and security. Below the text are two input fields: "2.4G Wireless Network Name (SSID)" with the value "dlink-2870B-z" and "5G Wireless Network Name (SSID)" with the value "dlink-2870B5G-z". At the bottom, there are four buttons: "Prev", "Next", "Cancel", and "Connect".

The screenshot shows a configuration page titled "STEP 5: SECURE YOUR WIRELESS NETWORK". It contains a paragraph of text explaining the importance of wireless network security. Below the text, there are three levels of security: "BEST", "BETTER", and "GOOD", each with a radio button. The "BEST" option is selected. Below these options, there is a "NONE" option with a radio button. At the bottom, there are four buttons: "Prev", "Next", "Cancel", and "Connect".

## **Step 6: SET YOUR WIRELESS SECURITY PASSWORD**

In this step, we can set the wireless security password

In this section, we can configure the following parameters.

**2.4G Wireless Security Password:**Enter the 2.4G wireless security password

**5 Wireless Security Password:**Enter the 5G wireless security password

Click **Prev** button to discard the changes made and return to the previous page.

Click the **Next** button to continue to the next page.

Click the **Cancel** button to discard the changes made and return to the main page.

### **STEP 6: SET YOUR WIRELESS SECURITY PASSWORD**

Once you have selected your security level - you will need to set a wireless security password. With this password, a unique security key will be generated.

**2.4G Wireless Security Password :**

**5G Wireless Security Password :**

## **Step 7:SETUP MYDLINK CLOUD SERVICES**

Click the **Prev** button to discard the changes made and return to the previous page.

Click the **Next** button to register this device with a mydlink Cloud Services account.

Click the **Cancel** button to discard the changes made and return to the main page.

Click the **Connect** button to connect to the router.

### **STEP 7: SETUP MYDLINK™ CLOUD SERVICES**

The internet connection has now been established. If you would like to register this device with a mydlink™ Cloud Services account right now please click on "Next", otherwise click "Connect" to skip this step and complete the Setup Wizard.

Click the **Prev** button to discard the changes made and return to the previous page.

Click the **Next** button to register this device with a mydlink Cloud Services account.

Click the **Cancel** button to discard the changes made and return to the main page.

Click the **Skip** button to ignore this step and continue to the next page.

### **STEP 7: SETUP MYDLINK™ CLOUD SERVICES**

To use the features of [mydlink.com](http://mydlink.com) and the mydlink™ Lite app, you will need an account with [mydlink.com](http://mydlink.com) . If you already have an account, select Yes, I have a mydlink™ account and click Next to register the router with [mydlink.com](http://mydlink.com) . If you do not have an account, select No, I want to register and login with a new mydlink™ account and click Next to create an account. If you do not wish to sign up for the mydlink™ service, please click Cancel.

#### **Do you have mydlink™ account?**

- Yes, I have a mydlink™ account.
- No, I want to register and login with a new mydlink™ account.

When select the 'Yes, I have a mydlink account'

In this section, we can configure the following parameters.

**E-mail Address (Account Name):**Enter the e-mail address(account name)

**Password:**Enter the password.

Click the **Login** button to login in

Click the **Prev** button to discard the changes made and return to the previous page.

Click the **Next** button to login in this device with a mydlink Cloud Services account.

Click the **Cancel** button to discard the changes made and return to the main page

Click the **Skip** button to ignore this step and continue to the next page.

When select the ‘No, I want to register and login with a new mydlink account.’”

In this section, we can configure the following parameters.

**E-mail Address (Account Name):**Enter the e-mail address(Account Name)

**Password:**Enter the password

**Confirm Password :**Enter the confirm passwor

**First Name:**Enter the first name

**Last Name:**Enter the last name

Click the **Sign up** button to sign in this device with a mydlink Cloud Services account.

Click the **Finish** button to complete setup the dualband wireless N750 Modem Router.

The screenshot shows a registration form titled "STEP 7: SETUP MYDLINK™ CLOUD SERVICES". Below the title, it says "Please fulfill the options to complete the registration". The form contains several input fields: "E-mail Address (Account Name)", "Password", "Confirm Password", "First Name", and "Last Name". Below these fields is a checkbox labeled "I accept the mydlink terms and conditions". At the bottom of the form, there are four buttons: "Sign up", "Prev", "Next", "Cancel", and "Skip".

The screenshot shows a screen titled "FINISH". The text on the screen reads: "Your Dualband Wireless N750 Modem Router is ready for use now. Congratulations! Your Dualband Wireless N750 Modem Router has been setup successfully and is now ready for use." At the bottom of the screen, there is a "Finish" button.



## WAN Setup

To access the **WAN Setup** page, click on the **Setup** menu link, at the top, and then click on the **WAN Setup** menu link, on the left.

On this page, the user can configure services related to the WAN connectivity of this product.

Services available for configuration are the following:

- [Operating Mode](#)
- [ATM VC Setting](#)
- [WAN Setting](#)
- [WAN](#)

The screenshot shows the D-Link WAN Setup configuration page. The page has a dark grey sidebar on the left with a navigation menu. The main content area is white with a dark grey header bar at the top. The header bar contains the D-Link logo and a navigation menu with tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The SETUP tab is selected. The main content area is divided into three sections: WAN SETUP, OPERATING MODE, and ATM VC SETTING. The WAN SETUP section contains a message about manual configuration. The OPERATING MODE section has radio buttons for ADSL Router (selected), Residential Gateway (NBN/UFM Mode), and VDSL Router. The ATM VC SETTING section has dropdown menus for Interface (PVC1), Country, and ISP, and input fields for VPI (0) and VCI (100). There are also checkboxes for Encapsulation (VC MUX) and QoS, and a dropdown for WAN Type (Default). A 'Helpful Hints...' section is on the right side of the page.

**D-Link**

DSL-2870B // SETUP ADVANCED MAINTENANCE STATUS HELP

Wizard  
WAN Setup  
Network Map  
Wireless 2.4G Setup  
Wireless 5G Setup  
LAN Setup  
Time and Date  
IPv6  
Mydlink™ Settings

Internet Offline  
Logout Reboot

**WAN SETUP**

If you consider yourself an advanced user or have configured a router before, you can input all the settings manually. Otherwise you can click SETUP->Wizard.

**OPERATING MODE**

Current Mode:  ADSL Router  
 Residential Gateway (NBN/UFM Mode)  
 VDSL Router

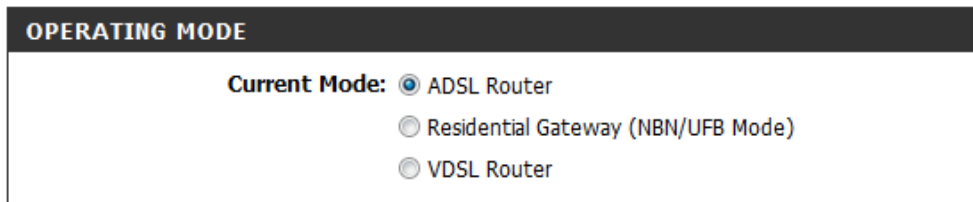
**ATM VC SETTING**

Interface: PVC1  
Country: (Click to Select)  
ISP: (Click to Select)  
VPI: 0  
VCI: 100  
Encapsulation: VC MUX  
QoS:   
WAN Type: Default

**Helpful Hints..**  
Here you can quickly setup your WAN connection. These details should have been provided by your ISP (Internet Service Provider). Often you will receive a bundle pack with the important account information.  
More...

### Operating Mode

The current mode is ADSL Router, VDSL Router or Residential Gateway(NBN/UFB Mode)



**OPERATING MODE**

**Current Mode:**  ADSL Router  
 Residential Gateway (NBN/UFB Mode)  
 VDSL Router

### ATM VC SETTING

In this section, select Operating mode as **ADSL Router**, we can configure the following parameters.

**Interface:** Select the ATM VC setting interface.

**Country:** In this drop-down menu, the user can select one of two country options. They are **Australia** and **New Zealand**. To manually configure this connection, the user can choose the third option called **Other**.

**ISP:** Select the ISP.

**VPI:** Enter the VPI values.

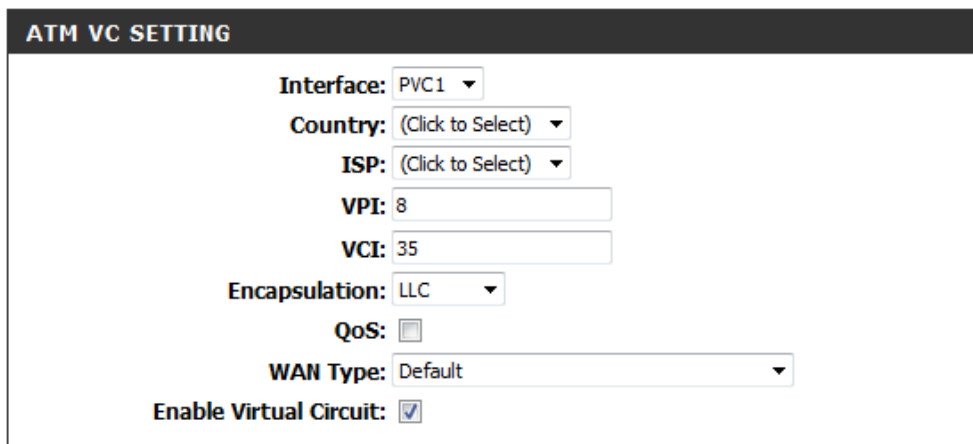
**VCI:** Enter the VCI values.

**Encapsulation:** Select the encapsulation mode.

**QoS:** Enable the QoS

**WAN Type:** Select the WAN type.

**Enable Virtual Circuit:** Enable the virtual circuit.



**ATM VC SETTING**

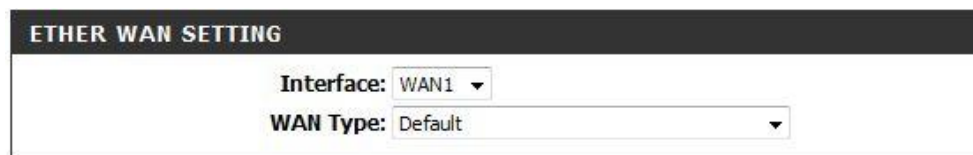
**Interface:** PVC1 ▾  
**Country:** (Click to Select) ▾  
**ISP:** (Click to Select) ▾  
**VPI:** 8  
**VCI:** 35  
**Encapsulation:** LLC ▾  
**QoS:**   
**WAN Type:** Default ▾  
**Enable Virtual Circuit:**

### Ether WAN SETTING

In this section, select the Operating mode as **Residential Gateway (NBN/UFB Mode)**, we can configure the following parameters.

**Interface:** Select the Ethernet interface.

**WAN Type:** In this drop-down menu, the user can select one of WAN Type.



**ETHER WAN SETTING**

**Interface:** WAN1 ▾  
**WAN Type:** Default ▾

### **PTM WAN SETTING**

In this section, select the Operating mode as **VDSL Router**, we can configure the following parameters.

**Interface:** Select the Ethernet interface.

**QoS:** Enable or disable the QoS function, if enable QoS option, the Scheduler Algorithm will be displayed in drop down list, and the user can set it as **SP** or **WFQ**.

**WAN Type:** In this drop-down menu, the user can select one of WAN Type.

**Enable:** Enable or disable the interface.

**PTM WAN SETTING**

Interface: WAN1 ▾

QoS:

WAN Type: Default ▾

Enable:

### **WAN SETTINGS**

In the **WAN Setting** section, options to choose from are **Dynamic IP Address**, **Static IP Address**, **PPPoE**, **PPPoA** and **Bridge Mode**.

**WAN SETTINGS**

Configure your DSL connection here. Please consider the information of your provider on the settings otherwise it may not be possible to establish a connection.

Dynamic IP Address      Choose this option to obtain an IP address automatically from your ISP. (For most Cable modem users)

Static IP Address      Choose this option to set static IP information provided to you by your ISP.

PPPoE      Choose this option if your ISP uses PPPoE. (For most DSL users)

PPPoA      Choose this option if your ISP uses PPPoA. (For most DSL users)

Bridge Mode      Choose this option if your ISP uses Bridge.

### WAN – Dynamic IP Address

Select this option to obtain an IP address automatically from your ISP.

**Hostname:** Enter the hostname.

**MAC Address:** Enter the MAC address.

**MTU:** If you experience connection issues, you may need to change the MTU setting for optimal performance with your specific ISP.

**Auto DNS:** Select this option to enable or disable the Auto DNS option

**NAT:** Select this option to enable or disable the NAT option

**Firewall:** Select this option enable or disable the firewall for this interface.

**Default Route:** Select this option enable or disable the default route for this interface.

**Enable PPPoE Passthrough:** Select this option enable or disable the enable PPPoE passthrough for this interface.

**Enable IPv6 Passthrough:** Select this option enable or disable the enable IPv6 passthrough for this interface.

**Service Category:** Select the service category.

### WAN – Static IP Address

Select this option to set static IP information provided to you by your ISP.

**IP Address:** Enter the static IP address assigned to you by your ISP.

**Subnet Mask:** Enter the subnet mask assigned to you by your ISP.

**Gateway Address:** Enter the gateway address assigned to you by your ISP.

**MTU:** If you experience connection issues, you may need to change the MTU setting for optimal performance with your specific ISP.

**NAT:** Select this option to enable or disable the NAT option

**Firewall:** Select this option enable or disable the firewall for this interface.

**Default Route:** Select this option enable or disable the default route for this interface.

**Enable PPPoE Passthrough:** Select this option enable or disable the enable PPPoE passthrough for this interface.

**Enable IPv6 Passthrough:** Select this option enable or disable the enable IPv6 passthrough for this interface.

**Service Category:** Select the service category.

**WAN**

Hostname:  (optional)

MAC Address:

MTU:

Auto DNS:

NAT:

Firewall:

Default Route:

Enable PPPoE Passthrough:

Enable IPv6 Passthrough:

Service Category:

**WAN**

Note: The DNS Mode can't be set as only automatically detected when WAN setting is Static IP Address: [dns server](#)

IP Address  assigned by your ISP

Subnet Mask

Gateway Address

MTU:

NAT:

Firewall:

Default Route:

Enable PPPoE Passthrough:

Enable IPv6 Passthrough:

Service Category:

## WAN – PPPoE

Select this option if your ISP requires you to use a **PPPoE** connection. This option is typically used for DSL services. Select **PPPoE** to obtain an IP address automatically for your **PPPoE** connection. Please enter the information accordingly.

**Username:** Enter the username for your ADSL account.

**Password:** Enter the password for your ADSL account.

**Confirm Password:** Enter the confirm password.

**Service Name:** You can enter a name for your service here, it's the optional.

**AC Name:** Enter a name of this PPPoE access concentrator, It's the optional.

**IP Control:** Select the IP control.

**Static IP Address:** Enter the static IP address.

**MTU:** If you experience connection issues, you may need to change the MTU setting for optimal performance with your specific ISP.

**Auto DNS:** Select this option to enable or disable the Auto DNS option

**NAT:** Select this option to enable or disable the NAT option

**Firewall:** Select this option enable or disable the firewall for this interface.

**Default Route:** Select this option enable or disable the default route for this interface.

**Enable PPPoE Passthrough:** Select this option enable or disable the enable PPPoE passthrough for this interface.

**Enable IPv6 Passthrough:** Select this option enable or disable the enable IPv6 passthrough for this interface.

**Connection Mode Select:** Specifies the PPPoE connect mode.

**Maximum Idle Time:** Enter the maximum Idle time

**Service Category:** Select the service category.

### WAN

**Username:**

**Password:**

**Confirm Password:**

**Service Name:**  (optional)

**AC name:**  (optional)

**IP Control:**

**Static IP Address:**

**MTU:**

**Auto DNS:**

**NAT:**

**Firewall:**

**Default Route:**

**Enable PPPoE Passthrough:**

**Enable IPv6 Passthrough:**

**Connect Mode Select:**  Always-on  
 Manual  
 Connect-on demand

**Maximum Idle Time:**  Minutes

**Service Category:**

### WAN - PPPoA

In this section, we can configure the following parameters.

**Username:** Enter the username.

**Password:** Enter the password

**Confirm Password:** Enter the confirm password

**Service Name:** Enter the service name.

**AC name:** Enter the AC name.

**IP Control:** Select the IP control.

**Static IP Address:** Enter the static IP address.

**MTU:** Enter the MTU

**Auto DNS:** Select this option to enable or disable the Auto DNS option

**NAT:** Select this option to enable or disable the NAT option

**Firewall:** Select this option enable or disable the firewall for this interface.

**Default Route:** Select this option enable or disable the default route for this interface.

**Enable IPv6 Passthrough:** Select this option enable or disable the enable IPv6 passthrough for this interface.

**Connect Mode Select:** Select the connect mode, options to choose from are Always- on, Manual and Connect –on demand.

**Maximun Idle Time:** Enter the maximun Idle time

**Sevice Category:** Select the service category.

**WAN**

Username: test

Password: ●●●●

Confirm Password: ●●●●

IP Control: Dynamic IP Address ▼

Static IP Address:

MTU: 1492

Auto DNS:

NAT:

Firewall:

Default Route:

Enable IPv6 Passthrough:

Connect Mode Select:  Always-on  
 Manual  
 Connect-on demand

Maximum Idle Time: 5 Minutes

Service Category: UBR ▼

Apply

### WAN – Bridge

Select this option if your ISP uses Bridge.

**Sevice Category:** Select the service category.

**WAN**

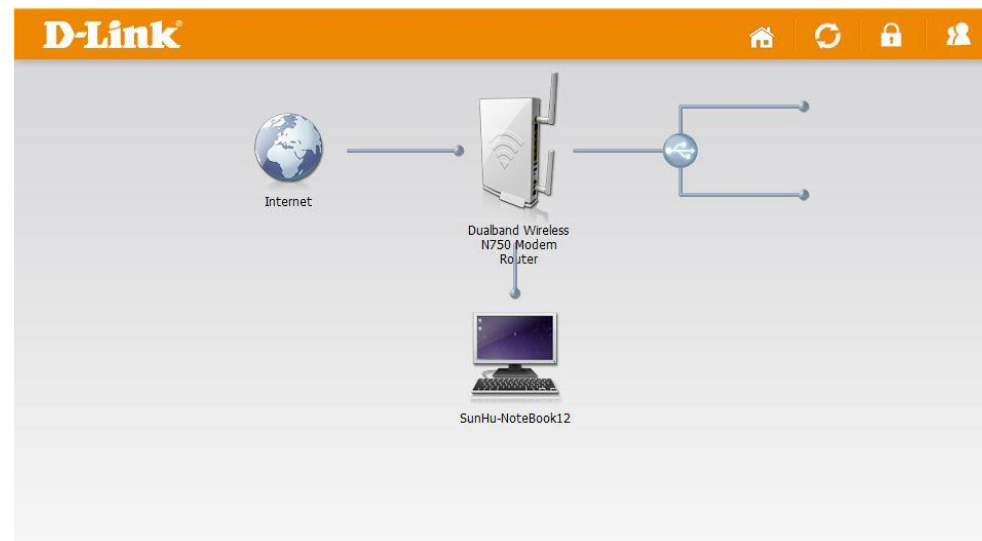
Service Category: UBR ▼

Apply

## Network Map

To access the **Network Map** page, click on the **Setup** menu link, at the top, and then click on the **Network Map** menu link, on the left.

On this page the user can easily manage device setting and view all connected devices within network, and the user can configure the URL filter, schedules and wireless security etc. such as router information, network devices' IP address and MAC address. With graphics and easy-to-understand user interface.



Click router icon, the router configuration page will be pop-up.

In this section, we can view the information of this router, and configure wireless setting and wireless security.

Click **Backup Configuration** button to backup configuration of router to local PC.



Click **Wireless Setting** button, the Wireless Setting page will be pop-up.

In the section, we can enable or disable 2.4GHz/5GHz wireless, and configure wireless SSID for this router.

Click **Apply** button to commit the configuration.

Click **Back** button to return to router information page.



Click **Wireless Security Setting**, The Wireless Security page will be pop-up.

In the section, we can configure 2.4GHz or 5GHz wireless security.

Click **Apply** button to commit the configuration.

Click **Back** button to return to router information page.



Click client icon, The client configuration page will be pop-up.

In the section, we can view information of the client, and the user can block internet access, configure the URL filter and schedule.

Click **Block Internet Access** button, "Are you sure want to block this device?" dialog will be pop-up.





Click **URL Filter** icon, The URL Filter configuration page will be pop-up.

In the section, we can view URL filter list, and the user can add or delete the URL filter.

**Enable:** Enable or disable URL filter function for this router.

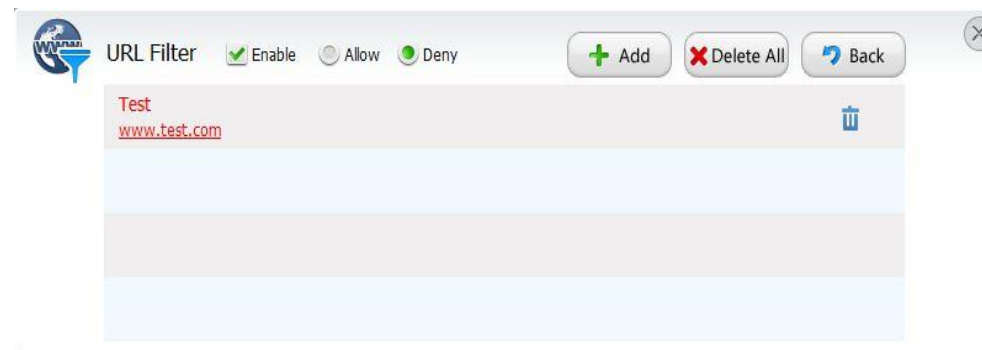
**Allow:** To set up a list of allowed web sites.

**Deny:** To set up a list of denied web sites.

Click **Add** button to add a URL filter for the client.

Click **Delete All** button to delete all URL filter from the list.

Click **Back** button to return to client information page



Click **Schedules** icon, The Schedules configuration page will be pop-up.

In the section, we can configure schedules for this router.

**Enable:** Enable or disable Schedules function for this router.

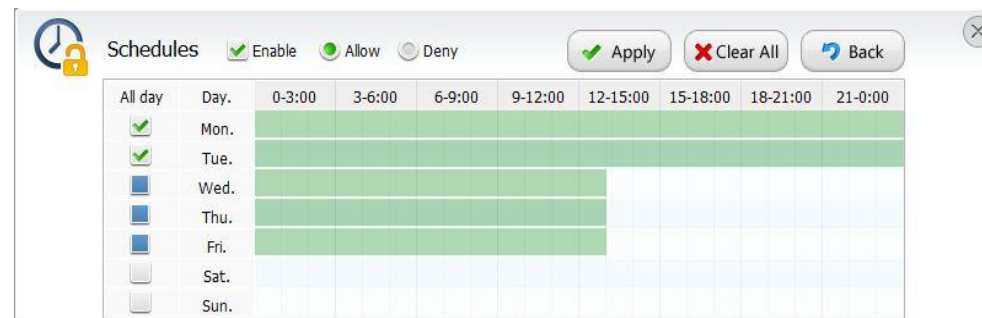
**Allow:** To set up a list of allowed web sites.

**Deny:** To set up a list of denied web sites.

Click **Apply** button to commit the configuration.

Click **Clear All** button to clear all of the timeframes.

Click **Back** button to return to client information page.



## Wireless 2.4G

To access the **Wireless 2.4G** page, click on the **Setup** menu link, at the top, and then click on the **Wireless 2.4G** menu link, on the left.

On this page the user can configure services related to the Wireless 2.4GHz connectivity of this product.

Services available for configuration are the following:

- [Add Wireless Device with WPS](#)
- [Wireless Setting](#)
- [WPA Setting](#)

- Wireless

The screenshot displays the D-Link web interface for the DSL-2870B. The top navigation bar includes 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various configuration options, with 'Wireless 2.4G Setup' selected. The main content area is titled 'ADD WIRELESS DEVICE WITH WPS(WI-FI PROTECTED SETUP) WIZARD'. Below this, there is a section for 'WI-FI PROTECTED SETUP (ALSO CALLED WCN 2.0 IN WINDOWS VISTA)' with the following settings:

- Enable:
- Current PIN: 61183537
- Buttons: Generate New PIN, Reset PIN to default
- Wi-Fi Protected Status: Configured
- Buttons: Reset to Unconfigured, Add Wireless Device with WPS

The 'WIRELESS SETTING' section includes the following options:

- Wireless Mode:  Disable,  Always-on,  Schedule
- Enable Multiple SSIDs:
- SSID / Network Name: dlink-2870B-z
- Enable Access Point:
- Disable SSID / Network Name Broadcast:

## Add Wireless Device with WPS

The Wireless Device, with WPS, Wizard is designed to assist the user in configuring a connection between this router and a wireless client by means of the WPS wireless connection method.

In this section, we can configure the following parameters.

**Enable:** Tick this option to enable the WPS feature.

**Disable WPS-PIN Method:** Tick this option to disable the WPS-PIN Method.

**Current PIN:** Here a PIN number will be displayed that we can use for the WPS connection. To generate a new PIN number, click on the **Generate New PIN** button. To reset this option, click on the **Reset PIN to default** button.

**Wi-Fi Protected Status:** Here the Wi-Fi Protected Status will be displayed. By default, this option is 'Configured'. To reset this option to 'Unconfigured', click on the **Reset to Unconfigured** button.

Click the **Add Wireless Device with WPS** button to initiate the wizard.

After click the **Add Wireless Device with WPS** button, the following page will be available.

**PIN:** Enter its PIN number below to add this device to your wireless network.

**Virtual Push Button:** If the wireless device you are adding to your wireless network has both options available, you may use the Virtual Push Button if you prefer.

**ADD WIRELESS DEVICE WITH WPS(WI-FI PROTECTED SETUP) WIZARD**

This wizard is designed to assist you in connecting your wireless device to your router. It will guide you through step-by-step instructions on how to get your wireless device connected. Click the "Add Wireless Device with WPS" button below to begin.

**WI-FI PROTECTED SETUP (ALSO CALLED WCN 2.0 IN WINDOWS VISTA)**

Enable :

Current PIN : 61183537

Generate New PIN    Reset PIN to default

Wi-Fi Protected Status : Configured

Reset to Unconfigured

Add Wireless Device with WPS

**ADD WIRELESS DEVICE WITH WPS**

There are two ways to add wireless device to your wireless network: PIN number or Push Button.

If the wireless device you are adding to your wireless network only comes with a PIN number, enter its PIN number below to add this device to your wireless network.

PIN :     Connect

If the wireless device you are adding to your wireless network has both options available, you may use the Virtual Push Button if you prefer.

PUSH BUTTON :    Virtual Push Button

(The Virtual Push Button acts the same as the physical Push Button on the router)

Enter the current PIN, click the **Connect** button, this page will be available.

#### USING PIN NUMBER

Please start WPS on the wireless device you are adding to your wireless network within **118** seconds...

Click the **Continue** button to continue

#### ADD WIRELESS DEVICE WITH WPS

You failed to add the wireless device to your wireless network within the given timeframe, please click on the button below to do it again.

continue

After clicking the **Virtual Push Button** button, this page will be available.

#### VIRTUAL PUSH BUTTON

Please press down the Push Button (physical or virtual) on the wireless device you are adding to your wireless network within **118** seconds...

Click the **Continue** button to continue

#### ADD WIRELESS DEVICE WITH WPS

You failed to add the wireless device to your wireless network within the given timeframe, please click on the button below to do it again.

continue

## Wireless SETTING

If your wireless adapter doesn't support the WPS connection methods, we can configure the Wireless Connection manually here.

In this section, we can configure the following parameters.

**Wireless Mode:** This router supports three wireless mode options available. They are Disable Always-on and Schedule.

**Enable Multiple SSIDs:** Select this option enable or disable the enable multiple SSIDs for this interface.

**SSID/Network Name:** Enter the Wireless name (SSID) here. This name will be available when wireless clients scan for available wireless networks.

**Enable Access Point:** Select this option enable or disable the enable access point for this interface.

**Disable SSID/Network Name Broadcast:** Select this option enable or disable SSID/Network Name Broadcast for this interface.

**Country:** Select your country from the drop-down menu here.

**Channel:** Here we can select a wireless channel manually, or select the **Auto** option to allow the router to automatically select the channel with the least interference.

**Security:** This router supports five wireless security mode options available in the **Security** drop-down menu. Options to choose from are **None, WEP, WPA, WPA2** and **WPA/WPA2**.

**Cipher Type:** Option to choose from are TKIP, AES and TKIP+AES.

**Group Key Update Interval:** Enter the group key update interval value here.

## WPA SETTING

In this section, we can configure the following parameters.

**WPA type:** Options to choose from are **802.1x** and **PSK string**.

**PSK string:** Enter the PSK string

Click the **Apply** button to accept the changes.

### WIRELESS SETTING

**Wireless Mode :**  Disable  Always-on  Schedule

**Enable Multiple SSIDs :**

**SSID / Network Name :**

**Enable Access Point :**

**Disable SSID / Network Name Broadcast :**

**Country :** AUSTRALIA

**Channel :** Auto Scan (recommended) (Current: CH )

**Security :** WPA2

**Cipher Type :** TKIP+AES

**Group Key Interval :**

### WPA SETTING

**WPA type :**  802.1x  PSK string

**PSK string :**

## Wireless 5G Setup

To access the **Wireless 5G Setup** page, click on the **Setup** menu link, at the top, and then click on the **Wireless 5G** menu link, on the left.

On this page the user can configure services related to the Wireless 5GHz connectivity of this product.

Services available for configuration are the following:

- [Add Wireless Device with WPS](#)
- [Wireless Setting](#)
- [WPA Setting](#)

The screenshot displays the D-Link web interface for the DSL-2870B modem router. The top navigation bar includes 'DSL-2870B', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar contains a menu with 'Wizard', 'WAN Setup', 'Network Map', 'Wireless 2.4G Setup', 'Wireless 5G Setup', 'LAN Setup', 'Time and Date', 'IPv6', 'Mydlink™ Settings', 'Internet Offline', and 'Logout Reboot'. The main content area is titled 'ADD WIRELESS DEVICE WITH WPS(WI-FI PROTECTED SETUP) WIZARD'. It contains a 'Helpful Hints..' section on the right and a 'WI-FI PROTECTED SETUP (ALSO CALLED WCN 2.0 IN WINDOWS VISTA)' section in the center. The 'WI-FI PROTECTED SETUP' section includes an 'Enable' checkbox (checked), a 'Current PIN' of 61183537, and buttons for 'Generate New PIN', 'Reset PIN to default', 'Reset to Unconfigured', and 'Add Wireless Device with WPS'. Below this is the 'WIRELESS SETTING' section, which includes 'Wireless Mode' (radio buttons for Disable, Always-on, Schedule), 'Enable Multiple SSIDs' (checkbox), 'SSID / Network Name' (text field with 'dlink-2870B5G-z'), 'Enable Access Point' (checkbox checked), and 'Disable SSID / Network Name Broadcast' (checkbox).

## Add Wireless Device with WPS

The Wireless Device, with WPS, Wizard is designed to assist the user in configuring a connection between this router and a wireless client by means of the WPS wireless connection method.

In this section we can configure the following parameters.

**Enable:** Tick this option to enable the WPS feature.

**Disable WPS-PIN Method:** Tick this option to disable the WPS-PIN Method.

**Current PIN:** Here a PIN number will be displayed that we can use for the WPS connection. To generate a new PIN number, click on the **Generate New PIN** button. To reset this option, click on the **Reset PIN to default** button.

**Wi-Fi Protected Status:** Here the Wi-Fi Protected Status will be displayed. By default, this option is 'Configured'. To reset this option to 'Unconfigured', click on the **Reset to Unconfigured** button.

Click the **Add Wireless Device with WPS** button to initiate the wizard.

After click the **Add Wireless Device with WPS** button, the following page will be available.

**PIN:** Enter its PIN number below to add this device to your wireless network.

**Virtual Push Button:** If the wireless device you are adding to your wireless network has both options available, you may use the Virtual Push Button if you prefer.

Enter the current PIN; click the **Connect** button, this page will be available.

### ADD WIRELESS DEVICE WITH WPS(WI-FI PROTECTED SETUP) WIZARD

This wizard is designed to assist you in connecting your wireless device to your router. It will guide you through step-by-step instructions on how to get your wireless device connected. Click the "Add Wireless Device with WPS" button below to begin.

#### WI-FI PROTECTED SETUP (ALSO CALLED WCN 2.0 IN WINDOWS VISTA)

**Enable :**

**Current PIN : 61183537**

**Wi-Fi Protected Status :** Configured

### ADD WIRELESS DEVICE WITH WPS

There are two ways to add wireless device to your wireless network: PIN number or Push Button.

If the wireless device you are adding to your wireless network only comes with a PIN number, enter its PIN number below to add this device to your wireless network.

**PIN :**

If the wireless device you are adding to your wireless network has both options available, you may use the Virtual Push Button if you prefer.

**PUSH BUTTON :**

(The Virtual Push Button acts the same as the physical Push Button on the router)

### USING PIN NUMBER

Please start WPS on the wireless device you are adding to your wireless network within **118** seconds...

Click the **Continue** button to continue

**ADD WIRELESS DEVICE WITH WPS**

You failed to add the wireless device to your wireless network within the given timeframe, please click on the button below to do it again.

After clicking the **Virtual Push** button, this page will be available

**VIRTUAL PUSH BUTTON**

Please press down the Push Button (physical or virtual) on the wireless device you are adding to your wireless network within **118** seconds...

Click the **Continue** button to continue

**ADD WIRELESS DEVICE WITH WPS**

You failed to add the wireless device to your wireless network within the given timeframe, please click on the button below to do it again.



## Wireless SETTING

If your wireless adapter doesn't support the WPS connection methods, we can configure the Wireless Connection manually here.

In this section we can configure the following parameters.

**Wireless Mode:** This router supports three wireless mode options available. They are Disable Always-on and Schedule.

**Enable Multiple SSIDs:** Select this option enable or disable the enable multiple SSIDs for this interface.

**SSID/Network Name:** Enter the Wireless name (SSID) here. This name will be available when wireless clients scan for available wireless networks.

**Enable Access Point:** Select this option enable or disable the enable access point for this interface.

**Disable SSID/Network Name Broadcast:** Select this option enable or disable SSID/Network Name Broadcast for this interface.

**Country:** Select your country from the drop-down menu here.

**Channel:** Here we can select a wireless channel manually, or select the **Auto** option to allow the router to automatically select the channel with the least interference.

**Security:** This router supports five wireless security mode options available in the **Security** drop-down menu. Options to choose from are **None, WEP, WPA, WPA2** and **WPA/WPA2**.

**Cipher Type:** Option to choose from are TKIP, AES and TKIP+AES.

**Group Key Update Interval:** Enter the group key update interval value here.

## WPA SETTING

In this section we can configure the following parameters.

**WPA type:** Options to choose from are **802.1x** and **PSK string**.

**PSK string:** Enter the PSK string

Click the **Apply** button to accept the changes.

### WIRELESS SETTING

**Wireless Mode :**  Disable  Always-on  Schedule

**Enable Multiple SSIDs :**

**SSID / Network Name :**

**Enable Access Point :**

**Disable SSID / Network Name Broadcast :**

**Country :**

**Channel :**  (Current: CH )

**Security :**

**Cipher Type :**

**Group Key Interval :**

### WPA SETTING

**WPA type :**  802.1x  PSK string

**PSK string :**

## LAN Setup

To access the **LAN Setup** page, click on the **Setup** menu link, at the top, and then click on the **LAN Setup** menu link, on the left.

On this page the user can configure services related to the LAN Setup connectivity of this product. Services available for configuration are IP Settings Interface configuration DHCP Server and Add Static IP Address configuration.

The screenshot displays the D-Link web interface for LAN Setup. The top navigation bar includes 'DSL-2870B', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various configuration options, with 'LAN Setup' selected. The main content area is titled 'LAN SETUP' and contains an introductory paragraph. Below this is the 'IP SETTINGS' section, which includes a warning about reboots and configuration fields for IP Address (192.168.1.1) and Subnet Mask (255.255.255.0). The 'Snooping Mode' is set to 'Standard'. An 'Apply' button is located at the bottom of the settings. A 'Helpful Hints..' sidebar on the right provides additional information about private IP settings.

DSL-2870B	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Wizard	<b>LAN SETUP</b>				<b>Helpful Hints..</b> These are the IP settings of the LAN interface for the Device. These settings may be referred to as Private settings. You may change the LAN IP address if needed.
WAN Setup	This section allows you to configure the local network settings of your router. Please note that this section is optional and you should not need to change any of the settings here to get your network up and running.				
Network Map	<b>IP SETTINGS</b>				The LAN IP address is private to your internal network and cannot be seen on the Internet. <a href="#">More...</a>
Wireless 2.4G Setup	Please enter an IP Address for your Dualband Wireless N750 Modem Router. Attention! Afterwards, the device is only accessible under this new IP address.				
Wireless 5G Setup	Setting changes may require a reboot to take effect.				
LAN Setup	<b>Advanced Settings :</b> <input type="checkbox"/> <b>IP Address :</b> 192.168.1.1 <b>Subnet Mask :</b> 255.255.255.0 <b>IGMP Snooping :</b> <input type="checkbox"/> <b>Snooping Mode :</b> <input checked="" type="radio"/> Standard <input type="radio"/> Blocking <input type="button" value="Apply"/>				
Time and Date					
IPv6					
Mylink™ Settings					
Internet Offline					
Logout Reboot					

In this section, we can configure the IP Settings parameters.

**Advanced Settings:** Select this option to enable the Advanced Settings option.

**IP Address:** Enter the local IP address for this router here. The IP address is also used to connect to this device's Web User Interface. **Please note** that after changing the IP address you will be forced to log into the Web User Interface again, using the new IP address.

**Subnet Mask:** Enter the subnet mask used here.

**IGMP Snooping:** Select this option to enable the IGMP snooping option.

**Snooping Mode:** Options to choose from are Standard and Blocking.

Click the **Apply** button to accept the changes.

### IP SETTINGS

Please enter an IP Address for your Dualband Wireless N750 Modem Router. Attention! Afterwards, the device is only accessible under this new IP address.

Setting changes may require a reboot to take effect.

**Advanced Settings :**

**IP Address :**

**Subnet Mask :**

**IGMP Snooping :**

**Snooping Mode :**  Standard  Blocking

In this section we can configure the DHCP Server parameters.

**DHCP Server:** Options to choose from are Disable, Enable and Relay.

**Start IP Address:** Enter the start IP address.

**End IP Address:** Enter the end IP address

**Lease Time:** Set the lease time.

**WAN DHCP Server IP Address:** Enter the WAN DHCP server IP address.

Click the **Apply** button to accept the changes.

### DHCP SERVER

**DHCP Server :**  Disabled  Enable  Relay

**Start IP Address :**

**End IP Address :**

**Lease Time :**  1 Day   seconds

**WAN DHCP Server IP Address :**

In this section, we can configure the ADD Static IP Address parameters.

**MAC Address:** Enter the MAC address.

**IP Address:** Enter the IP address.

Click the **Apply** button to accept the changes.

### ADD STATIC IP ADDRESS

**MAC Address :**

**IP Address :**

## Time and Date

To access the **Time and Date** page, click on the **Setup** menu link, at the top, and then click on the **Time and Date** menu link, on the left.

On this page, the user can configure services related to the time and date feature of this product.

Time Servers and a Time Zone can be specified here.

The screenshot shows the D-Link router's web interface. At the top is the D-Link logo. Below it are navigation tabs: SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. On the left is a sidebar menu with options like Wizard, WAN Setup, Network Map, Wireless 2.4G Setup, Wireless 5G Setup, LAN Setup, Time and Date (highlighted), IPv6, and Mydlink™ Settings. At the bottom of the sidebar are 'Logout' and 'Reboot' buttons. The main content area is titled 'TIME' and contains a description of the Time Configuration option. Below this is the 'TIME SETTINGS' section with the following fields: 'Time and Date' (01/01/1970 02:30:34), 'Auto Update' (checked), 'Time Zone' (dropdown menu showing '(GMT+10:00) Canberra, Melbourne, Sydney'), 'Daylight Saving Settings' (checked), 'Primary NTP Server' (ntp1.dlink.com), 'Secondary NTP Server' (pool.ntp.org), and 'Time Update Interval' (3600 seconds). An 'Apply' button is at the bottom. On the right side, there is a 'Helpful Hints..' section with text about ensuring correct time and date.

In this section, we can configure the **Time Settings** for this router.

**Time and Date:** Display the time and date.

**Auto Update:** Tick this option to enable the auto update feature.

**Time Zone:** Select the time zone.

**Daylight Saving Settings:** Select this option to enable the Daylight Saving Settings option.

**Primary NTP Server:** Select the primary NTP server.

**Secondary NTP Server:** Select the secondary NTP server.

**Time Update Interval:** Enter the time update interval.

Click the **Apply** button to accept the changes.

This is a close-up of the 'TIME SETTINGS' section from the screenshot above. It shows the following configuration: 'Time and Date' is 01/01/1970 02:30:34; 'Auto Update' is checked; 'Time Zone' is set to '(GMT+10:00) Canberra, Melbourne, Sydney'; 'Daylight Saving Settings' is checked; 'Primary NTP Server' is ntp1.dlink.com; 'Secondary NTP Server' is pool.ntp.org; and 'Time Update Interval' is 3600 seconds. An 'Apply' button is located at the bottom right of the settings area.

In this section we can manually configure the time and date settings used by this router. Manually select the **Year**, **Month**, **Day**, **Hour**, **Minute**, and **Second** option here.

Alternatively we can copy the local computer's time and date settings to this router by simply clicking on the **Copy Your Computer's Time Settings** button.

Click the **Apply/Save** button to accept the changes made.

Click the **Cancel** button to discard the changes made and return to the main page.

**SET THE TIME AND DATE MANUALLY**

Year : 1970 ▾      Month : 01 ▾      Day : 01 ▾  
Hour : 02 ▾      Minute : 30 ▾      Second : 34 ▾

Copy Your Computer's Time Settings

Apply

## IPv6

To access the **IPv6** page, click on the **Setup** menu link, at the top, and then click on the **IPv6** menu link, on the left.

On this page, the user can configure services related to the IPv6 connectivity of this product.

In this section we can enter the **My IPv6 Interface is** and **My IPv6 Connection is** used here.

Use this section to configure the internal network settings of your router.

Click the **Apply** button to accept the changes.

#### LAN IPV6 ADDRESS SETTINGS

Use this section to configure the internal network settings of your router.

**LAN IPv6 Link-Local Address :** /64

Apply

**Note:** Setting changes may require a reboot to take effect.

## Mydlink™ Settings

To access the **Mydlink™ Settings** page, click on the **Setup** menu link, at the top, and then click on the **Mydlink™ Settings** menu link, on the left.

Devices that are mydlink-enabled can be accessed and managed through the mydlink website and by using mydlink mobile apps for IOS and Android. You cannot take advantage of these features without a mydlink account. If you have a mydlink account already, you can log in when you first set up the router, or by visiting this setup page.

**Mydlink Service:** Displays whether your device is registered with a mydlink account or not.

**Register Mydlink Service:** Click to go to open a wizard that will guide you through the process of registering your device to your mydlink account, If you don't have a mydlink account yet, you will be able to create one.

The screenshot shows the D-Link web interface for the DSL-2870B. The top navigation bar includes 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various setup options, with 'Mydlink™ Settings' highlighted. The main content area is titled 'MYDLINK™ SETTINGS' and contains the following text: 'Mydlink Cloud Services™ provides with you with ultimate control to monitor and manage your device remotely via a Smartphone, Tablet or browser. Simply create an account for free, register your new device to this account and then have the freedom to manage your device at anytime from anywhere with an Internet connection.' Below this, the status is shown as 'MYDLINK Mydlink™ Cloud Services: Non-Registered'. A button labeled 'Register mydlink Service' is present. At the bottom, a note reads: 'Note: Setting changes may require a reboot to take effect.' On the right side, there is a 'Helpful Hints...' section with text: 'Customer can according setting pages to sign-up/sign-in mydlink™ account. After login in, this device is binded with your mydlink™ account. More...'

Click the **Register mydlink Service** button to register mydlink service.

The screenshot shows the 'MYDLINK REGISTRATION' page. It contains the following text: 'To use the features of [mydlink.com](http://mydlink.com) and the mydlink™ Lite app, you will need an account with [mydlink.com](http://mydlink.com). If you already have an account, select Yes, I have a mydlink™ account and click Next to register the router with [mydlink.com](http://mydlink.com). If you do not have an account, select No, I want to register and login with a new mydlink™ account and click Next to create an account. If you do not wish to sign up for the mydlink™ service, please click Cancel.' Below this is a form with the question 'Do you have mydlink™ account?' and two radio button options: 'Yes, I have a mydlink™ account.' and 'No, I want to register and login with a new mydlink™ account.' At the bottom of the form are 'Next' and 'Cancel' buttons.



Select the “Yes, I have a mydlink account”, click **next** button, this page will be available

In this section, we can configure the following parameters.

**E-mail Address (Account Name):** Enter the account name.

**Password:** Enter the password.

Click the **Prev** button to discard the changes made and return to the previous page.

Click the **Login** button to login in

Click the **Cancel** button to discard the changes made and return to the main page

The screenshot shows a web form titled "MYDLINK REGISTRATION" with an orange header. The form contains two input fields: "E-mail Address (Account Name) :" and "Password :". Below the input fields are three buttons: "Prev", "Login", and "Cancel".

## Advanced Category

The **Advanced** category is designed to assist the user with more advanced configurations, concerning the other features found on this product.

The following pages can be found in the **Advanced** category:

- [Virtual Server](#) – On this page the user can configure advanced services related to the Virtual Server connectivity of this product.
- [DNS](#) – On this page the user can configure advanced services related to the DNS connectivity of this product.
- [Dynamic DNS](#) – On this page the user can configure services related to the Dynamic DNS feature of this product.
- [Port Trigger](#) – On this page the user can configure services related to the port trigger feature of this product.
- [IP&MAC Filtering](#) – On this page the user can configure services related to the IP&MAC filtering feature of this product.
- [Parental Control](#) – On this page the user can configure services related to the parental control feature of this product. Services available for configuration are **Time Restriction** and **URL Filtering**.
- [Firewall](#) – On this page the user can configure services related to the firewall feature of this product.
- [DMZ](#) – On this page the user can configure services related to the DMZ feature of this product.
- [RIP](#) – On this page the user can configure services related to the RIP feature of this product.
- [IGMP](#) – On this page the user can configure IGMP related to the port triggering feature of this product.
- [QoS](#) – On this page the user can configure services related to the QoS feature of this product.
- [WLAN 2.4G Advanced Settings](#) – On this page the user can configure services related to the WLAN 2.4G Advanced Settings feature of this product.
- [WLAN 5G Advanced Settings](#) – On this page the user can configure services related to the WLAN 5G Advanced Settings feature of this product.
- [Routing](#) – On this page the user can configure services related to the Routing feature of this product. Services available for configuration are **Static Route**, **Default Gateway**, and **RIP**.
- [SNMP](#) – On this page the user can configure services related to the SNMP feature of this product.

The screenshot shows the D-Link DSL-2870B Advanced Category configuration page. The top navigation bar includes 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'ADVANCED' tab is selected, and the 'VIRTUAL SERVER' sub-tab is active. The page title is 'VIRTUAL SERVER'. A description states: 'This is the ability to open ports in your router and re-direct data through those ports to a single PC on your link local network.' Below this is the 'ADD VIRTUAL SERVER RULES' section, which includes a checkbox for 'Enable Virtual Server Rules', a 'Name' input field, an 'Interface' dropdown menu (set to 'WAN1'), 'Internal IP', 'Internal Start Port', 'Internal End Port', 'External Start Port', 'External End Port' input fields, a 'Protocol Type' dropdown menu (set to 'TCP'), and a 'Time' section with radio buttons for 'Disable' and 'Enable'.

- [UPnP](#) – On this page the user can configure services related to the UPnP available on this product
- [Samba](#) – On this page the user can configure services related to the Samba connectivity of this product.
- [DSL Line Settings](#) – On this page the user can configure services related to the DSL Line Settings feature of this product.
- [URL Redirect](#) – On this page the user can configure services related to the URL Redirect feature of this product.
- [ALG Setting](#) – On this page the user can configure services related to the ALG Setting feature of this product.
- [Budget Quota](#) – On this page the user can configure services related to the Budget Quota feature of this product.

## Virtual Server

To access the **Virtual Server** page, click on the **Advanced** menu link, at the top, and then click on the **Virtual Server** menu link, on the left.

On this page the user can configure advanced services related to the Virtual Server connectivity of this product.

Services available for configuration are the following:

- [Add Virtual Server Rules](#)

**D-Link**

DSL-2870B //

SETUP    **ADVANCED**    MAINTENANCE    STATUS    HELP

Virtual Server

**VIRTUAL SERVER**

This is the ability to open ports in your router and re-direct data through those ports to a single PC on your link local network.

**ADD VIRTUAL SERVER RULES**

Enable Virtual Server Rules :

Name :

Interface : WAN1

Internal IP :

Internal Start Port :

Internal End Port :

External Start Port :

External End Port :

Protocol Type : TCP

NAT Loopback :

Time :  Disable  Enable

Begin Time : 00 : 00

Helpful Hints..

A Virtual Server is defined as service port. All requests to this port of your external IP address are forwarded to a certain internal IP address, e.g. requests via FTP oder POP3.

More...

### Add Virtual Server Rules

In this section, we can configure the following parameters.

**Enable Virtual Server Rules:** Select this option to enable the Daylight Saving Settings option.

**Name:** Enter the account name.

**Interface:** Select the interface. Options to choose from are **WAN1, WAN2, WAN3, WAN4, WAN5, WAN6, WAN7** and **WAN8**.

**Internal IP:** Enter the internal IP

**Internal Start Port:** Enter the internal start port.

**Internal End Port:** Enter the internal end port.

**External Start Port:** Enter the external start port.

**External End Port:** Enter the external end port.

**Protocol Type:** Select the protocol type. Options to choose from are **Both, TCP** and **UDP**.

**NAT Loopback:** It is for user can use device WAN IP to access virtual server from LAN side PCs.

**Time:** Select this option to enable or disable the time option.

**End Time:** Set the end time.

**Begin Day:** Set the begin day

**End Day:** Set the end day.

**ADD VIRTUAL SERVER RULES**

Enable Virtual Server Rules :

Name :

Interface : WAN1 ▾

Internal IP :

Internal Start Port :

Internal End Port :

External Start Port :

External End Port :

Protocol Type : TCP ▾

NAT Loopback :

Time :  Disable  Enable

Begin Time : 00 ▾ : 00 ▾

End Time : 00 ▾ : 00 ▾

Begin Day : Sun ▾

End Day : Sun ▾

Click the **Apply** button to accept the changes.

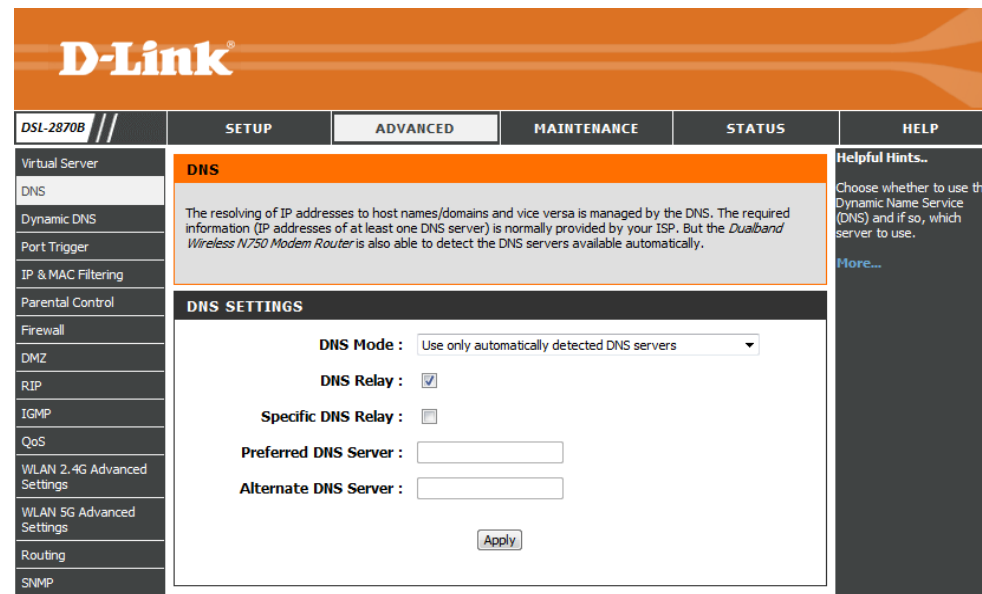
## DNS

To access the **DNS** page, click on the **Advanced** menu link, at the top, and then click on the **DNS** menu link, on the left.

On this page the user can configure advanced services related to the DNS connectivity of this product.

Services available for configuration are the following:

- [DNS Settings](#)



### DNS Settings

In this section, we can configure the following parameters.

**DNS Mode:** Select the DNS Mode. Options to choose from are **Disable DNS, Use Auto/User Discovered DNS servers, Use only automatically detected DNS servers, Use only manually specified DNS servers.**

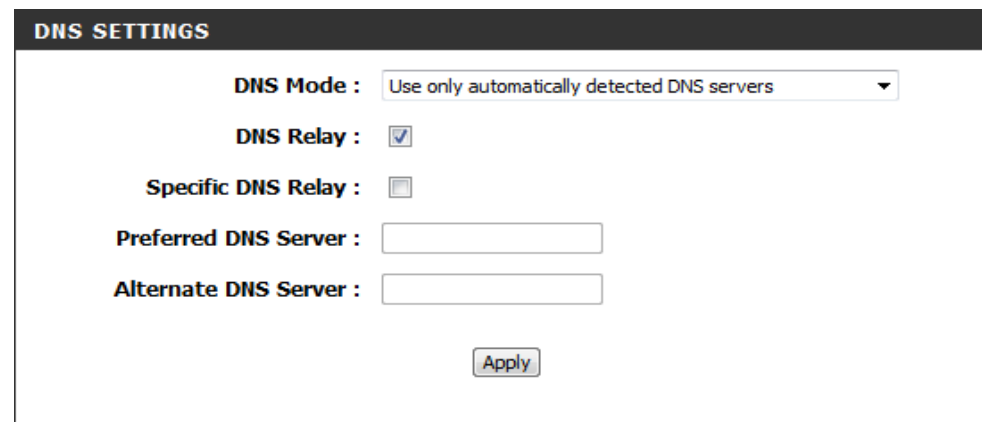
**DNS Relay:** Select this option to enable the DNS relay option.

**Specific DNS Relay:** Select this option to enable the specific DNS relay option.

**Preferred DNS Server:** Enter the preferred DNS server.

**Alternate DNS Server:** Enter the alternate DNS server.

Click the **Apply** button to accept the changes.



## Dynamic DNS

To access the **Dynamic DNS** page, click on the **Advanced** menu link, at the top, and then click on the **Dynamic DNS** menu link, on the left.

On this page, the user can configure services related to the Dynamic DNS feature of this product.

Services available for configuration are the following:

- [Dynamic DNS Settings](#)

### Dynamic DNS Settings

In this section, we can configure the following parameters.

**Dynamic DNS Settings:** Select this option to enable or disable the Dynamic DNS Settings option.

**DDNS Server:** Enter the DDNS server

**Username:** Enter the username.

**Password:** Enter the password

**Confirm Password:** Enter the confirm password.

**Hostname:** Enter the hostname.

Click the **Apply** button to accept the changes.

## Port Trigger

To access the **Port Trigger** page, click on the **Advanced** menu link, at the top, and then click on the **Port Trigger** menu link, on the left.

On this page, the user can configure services related to the port triggering feature of this product.

Services available for configuration are the following:

- [Port Trigger](#)

**D-Link**

DSL-2870B // SETUP ADVANCED MAINTENANCE STATUS HELP

**PORT TRIGGER**

This option is used to pre-configure single or multiple trigger ports on your router that will automatically activate when the router senses data sent to the Internet from one of these applications.

**PORT TRIGGER**

Enable Port Trigger :  Disabled  Enabled

Name :

Trigger Port :

Trigger Traffic Protocol Type : All Protocol

Public Port :

Public Traffic Protocol Type : All Protocol

Apply

**Note:** Setting changes may require a reboot to take effect.

**Helpful Hints...**

The Port Trigger allows you to do port forwarding, but only have the ports open when data flowing out of the trigger ports. When a program sends data out on outgoing ports called trigger ports, the device then allows incoming data on the open ports specified in your port triggering configuration.

[More...](#)

### Port Trigger

In this section we can configure the following parameters.

**Enable Port Trigger:** Select this option to enable or disable the enable port trigger option.

**Name:** Enter the name here.

**Trigger Port:** Enter the trigger port number here.

**Trigger Traffic Protocol Type:** Select the trigger traffic protocol type used here.  
Options to choose from are **All Protocol**, **TCP**, and **UDP**.

**Public Port:** Enter the public port here.

**Public Traffic Protocol Type:** Select the public traffic protocol type used here.  
Options to choose from are **All Protocol**, **TCP**, and **UDP**.

Click the **Apply** button to accept the changes made.



## IP&MAC Filtering

To access the **IP&MAC Filtering** page, click on the **Advanced** menu link, at the top, and then click on the **IP&MAC Filtering** menu link, on the left.

On this page the user can configure services related to the IP&MAC Filtering feature of this product.

Services available for configuration are the following:

- [Filter Type](#)
- [IP Filter Type](#)
- [Add Filter](#)

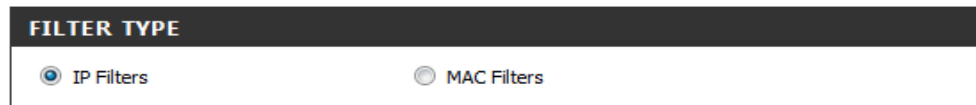
The screenshot displays the D-Link DSL-2870B web interface. The top navigation bar includes 'DSL-2870B //', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various configuration options, with 'IP & MAC Filtering' selected. The main content area is titled 'FILTER' and contains the following sections:

- FILTER**: A text box explaining that by default, all outgoing IP traffic from the LAN is allowed, and that filters can be used to block outgoing traffic by specifying a filter name and at least one condition.
- FILTER TYPE**: Radio buttons for 'IP Filters' (selected) and 'MAC Filters'.
- IP FILTER TYPE**: Radio buttons for 'IPv4 Filter' (selected) and 'IPv6 Filter'.
- ADD FILTER**: A section with the following fields:
  - Enable IP Filters:
  - Name:
  - Protocol:
  - Source IP Address: interface:

On the right side, there is a 'Helpful Hints..' section with instructions on naming rules and using the 'Add/Apply' and 'Remove' buttons. A 'More...' link is also present.

### Filter Type

In this section, we can configure the Filter Type. Options to choose from are **IP Filters** and **MAC Filters**.

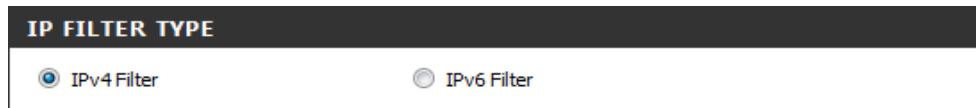


**FILTER TYPE**

IP Filters  MAC Filters

### IP Filter Type

In this section, we can configure the IP Filter Type. Options to choose from are **IPv4 Filter** and **IPv6 Filter**.



**IP FILTER TYPE**

IPv4 Filter  IPv6 Filter

### Add Filter

In this section, we can configure the following parameters.

**Enable IP Filters:** Select this option to enable or disable the IP filters option.

**Name:** Enter the name here.

**Protocol:** Select the protocol used here. Options to choose from are **Any**, **TCP**, **UDP** and **ICMP**.

**Source IP Address:** Select the source IP address used here. Options of the interface to choose from are **LAN1**, **LAN2**, **LAN3** and **LAN4** options to choose from are **Any IP address**, **Single IP** and **Specify IP Address (Range) IP Address**

**IP Address:** Enter the IP address for the filter.

**Destination IP Address:** Configure the destination IP address here. Enter the Destination IP Address in **from** and **to**

**Destination Ports:** Configure the destination ports here.

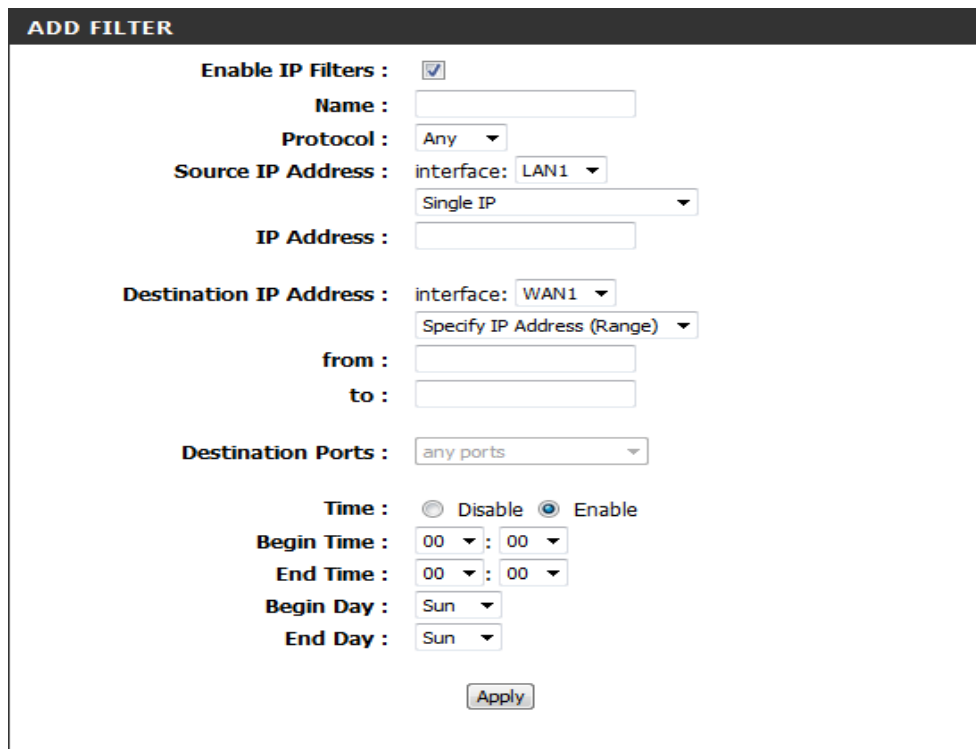
**Time:** Select this option to enable or disable the time option.

**Begin Time:** Enter the begin time here.

**End Time:** Enter the end time here.

**Begin Day:** Enter the begin day here.

**End Day:** Enter the end day here



**ADD FILTER**

**Enable IP Filters :**

**Name :**

**Protocol :** Any ▾

**Source IP Address :** interface: LAN1 ▾  
Single IP ▾

**IP Address :**

**Destination IP Address :** interface: WAN1 ▾  
Specify IP Address (Range) ▾

**from :**

**to :**

**Destination Ports :** any ports ▾

**Time :**  Disable  Enable

**Begin Time :** 00 ▾ : 00 ▾

**End Time :** 00 ▾ : 00 ▾

**Begin Day :** Sun ▾

**End Day :** Sun ▾

Click the **Apply** button to accept the changes made.

## Parental Control

To access the **Parental Control** page, click on the **Advanced** menu link, at the top, and then click on the **Parental Control** menu link, on the left.

On this page, the user can configure services related to the Parental Control feature of this product.

Services available for configuration are the following:

- [Parental Control](#)
- [URL Blocking](#)

**D-Link**

DSL-2870B // SETUP ADVANCED MAINTENANCE STATUS HELP

Virtual Server  
DNS  
Dynamic DNS  
Port Trigger  
IP & MAC Filtering  
**Parental Control**  
Firewall  
DMZ  
RIP  
IGMP  
QoS  
WLAN 2.4G Advanced Settings  
WLAN 5G Advanced Settings  
Routing

**PARENTAL CONTROL**

Parental Control provides the useful tools for restricting Internet access. Website URL Blocking allows you to quickly create a list of all web sites that you wish to allow or deny users from accessing.

**PARENTAL CONTROL**

URL Blocking  Domain Blocking

**URL BLOCKING**

URL Blocking:  Disabled  Enabled

Apply

**Note:** Setting changes may require a reboot to take effect.

**Helpful Hints..**  
Create a list of Websites URL that you would like the devices on your network to be allowed or denied access to.  
[More...](#)

### Parental Control

In this section, we can configure the Parental Control. Options to choose from are **URL Blocking and Domain Blocking**.

**PARENTAL CONTROL**

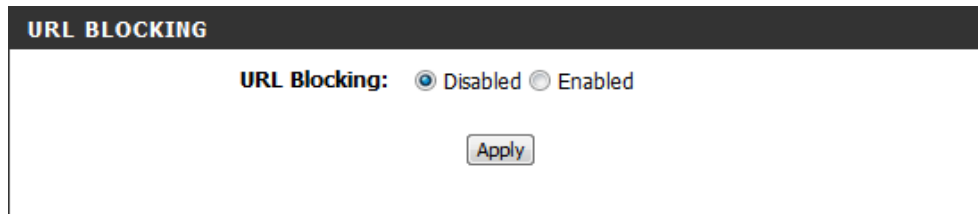
URL Blocking  Domain Blocking

### **URL Blocking**

In this section, we can configure the following parameters.

**URL Blocking:** Select this option to enable or disable the URL blocking option.

Click the **Apply** button to accept the changes made.



The screenshot shows a web interface for configuring URL blocking. At the top, there is a dark header with the text "URL BLOCKING" in white. Below the header, the text "URL Blocking:" is followed by two radio button options: "Disabled" (which is selected) and "Enabled". At the bottom right of the configuration area, there is a button labeled "Apply".

## Firewall

To access the **Firewall** page, click on the **Advanced** menu link, at the top, and then click on the **Firewall** menu link, on the left.

On this page the user can configure services related to the Firewall feature of this product.

Services available for configuration are the following:

- [Firewall Type](#)
- [Firewall](#)

**D-Link**

DSL-2870B // SETUP **ADVANCED** MAINTENANCE STATUS HELP

**FIREWALL**

Firewall Rules can be used to prevent you router from Denial of Service(DOS) attacks.

**FIREWALL TYPE**

IPv4 Firewall  IPv6 Firewall

**FIREWALL**

- Enable SPI
- Enable DOS and Portscan Protection
  - SYN flood attack
  - SYN/RST attack
  - SYN/FIN attack
  - FIN/URG/PSH attack
  - Xmas attack
  - Null scanning attack
  - Ping flood/Ping of Death attack

**Helpful Hints..**

In computing, a firewall is a piece of hardware and/or software which functions in a networked environment to prevent some communications forbidden by the security policy, analogous to the function of firewalls in building construction.

[More...](#)

### Firewall Type

In this section, we can configure the Firewall Type. Options to choose from are **IPv4 Firewall** and **IPv6 Firewall**.

**FIREWALL TYPE**

IPv4 Firewall  IPv6 Firewall

### Firewall

In this section, we can configure the Firewall. Options to choose from are **Enable SPI**, **Enable DOS and Port scan Protection**, **SYN flood attack**, **SYN/RST attack**, **SYN/FIN attack**, **FIN/URG/PSH attack**, **Xmas attack**, **Null scanning attack** and **Ping flood/Ping of Death attack**.

Click the **Apply** button to accept the changes

**FIREWALL**

- Enable SPI
- Enable DOS and Portscan Protection
  - SYN flood attack
  - SYN/RST attack
  - SYN/FIN attack
  - FIN/URG/PSH attack
  - Xmas attack
  - Null scanning attack
  - Ping flood/Ping of Death attack

Apply

## DMZ

To access the **DMZ** page, click on the **Advanced** menu link, at the top, and then click on the **DMZ** menu link, on the left.

On this page the user can configure services related to the DMZ feature of this product.

**D-Link**

DSL-2870B // SETUP **ADVANCED** MAINTENANCE STATUS HELP

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Parental Control  
Firewall  
**DMZ**  
RIP  
IGMP  
QoS  
WLAN 2.4G Advanced Settings  
WLAN 5G Advanced Settings  
Routing  
SNMP  
UPnP  
Samba  
DSL Line Settings  
URL Redirect

**DMZ (EXPOSED HOST)**

DMZ (Exposed Host): From the Internet you can access to a client within the DMZ. This client is more vulnerable than the other clients in your LAN. It is strongly recommended to store any sensitive data behind the DMZ protected by a firewall.

Note: Most of packets that from Internet will be forwarding to DMZ server except those packets that should forward to active virtual server, or access IAD's Telnet/FTP/remote administration http access service.

**DMZ (EXPOSED HOST) SETTINGS**

Enable DMZ :  Disable  Enable

IP Address :

Time :  Disable  Enable

Begin Time : 08 : 00

End Time : 19 : 30

Begin Day : Tue

End Day : Wed

Apply

Note: Setting changes may require a reboot to take effect.

**Helpful Hints..**

DMZ is short for Demilitarized Zone.

A demilitarized zone is a network area (a subnetwork) that sits between an your internal network and an external network, usually the Internet. The point of a DMZ is that connections from the internal and the external network to the DMZ are permitted, whereas connections from the DMZ are only permitted to the external network - hosts in the DMZ may not connect to the internal network. This allows the DMZ's hosts to provide services to the external network while protecting the internal network in case intruders compromise a host in the DMZ. For someone on the external network who wants to illegally connect to the internal network, the DMZ is a dead end.

More...

In this section we can configure the **DMZ Host** by entering the **IP Address** here and the work time by change **Time** settings.

**Enable DMZ:** Enable or disable the DMZ function for this router.

**IP Address:** Enter an IP address of the device you have connected to the router.

**Time:** Enable or disable the time scheduler, when this options is enabled, the internet client can access the server within a set time.

**Begin Time:** Specify a begin time for the DMZ rule.

**End Time:** Specify an end time for the DMZ rule.

**Begin Day:** Specify a begin day for the DMZ rule.

**End Day:** Specify an end day for the DMZ rule.

**DMZ (EXPOSED HOST) SETTINGS**

Enable DMZ :  Disable  Enable

IP Address :

Time :  Disable  Enable

Begin Time : 08 : 00

End Time : 19 : 30

Begin Day : Mon

End Day : Fri

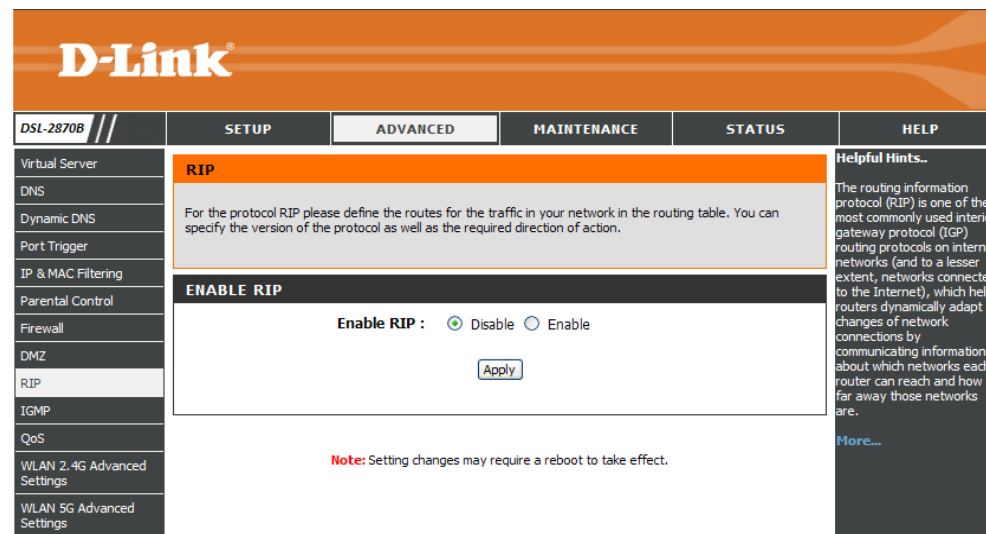
Apply

Click the **Apply** button to accept the changes made.

## RIP

To access the **RIP** page, click on the **Advanced** menu link, at the top, and then click on the **RIP** menu link, on the left.

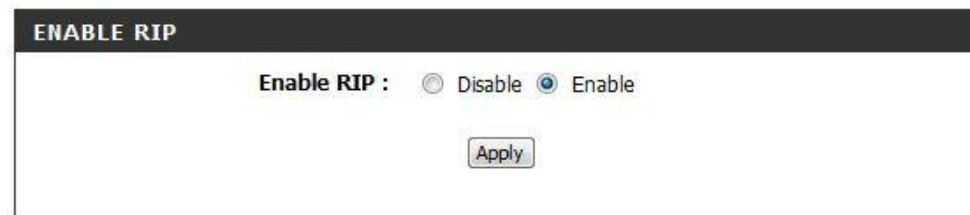
On this page, the user can configure services related to the RIP feature of this product.



In this section, we can enable RIP and configure it.

**Enable RIP:** Enable or disable RIP function for this router.

Click the **Apply** button to accept the changes made.



In this section, we can configure the RIP function.

**Interface:** Specify the interface to run RIP function.

**In-bound Protocol:** Specify the in-bound protocol, the option includes: **Disable**, **RIPv1**, **RIPv2** or **RIP Both**.

**Out-bound Protocol:** Specify the out-bound protocol, the option includes: **Disable**, **RIPv1**, **RIPv2** or **RIP Both**.

Click **Apply** button to commit the configuration





In this section, we can view the RIP table.

Click **Remove Selected** button, the selected entry will be removed.

RIP TABLE				
Interface	In-bound Protocol	Out-bound Protocol	Remove	Edit
WAN1	RIP V1	RIP V1	<input type="checkbox"/>	<input type="radio"/>

## IGMP

To access the **IGMP** page, click on the **Advanced** menu link, at the top, and then click on the **IGMP** menu link, on the left.

On this page, the user can configure services related to the IGMP feature of this product.

**D-Link**

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Firewall  
DMZ  
RIP  
**IGMP**  
QoS  
WLAN 2.4G Advanced Settings  
WLAN 5G Advanced Settings  
Routing

**IGMP**

IGMP allows support for efficient multicasting -- transmission of identical content, such as multimedia, from a source to a number of recipients.

**IGMP SETTINGS**

IGMP Support :  Disable  Enable

Interface : WAN1

Fast Leave :

Apply

**Note:** Setting changes may require a reboot to take effect.

**Helpful Hints..**  
IGMP allows support for efficient multicasting -- transmission of identical content, such as multimedia, from a source to a number of recipients.  
More...

In this section, we can enable IGMP and configure it.

**IGMP Support:** Enable or disable IGMP function for this router.

**Interface:** Specify the interface for the IGMP function.

**Fast Leave.** Enable or disable fast leave function.

Click the **Apply** button to accept the changes made.

**IGMP SETTINGS**

IGMP Support :  Disable  Enable

Interface : ALL

Fast Leave :

Apply

## QoS

To access the **QoS** page, click on the **Advanced** menu link, at the top, and then click on the **QoS** menu link, on the left.

On this page, the user can configure services related to the QoS feature of this product.

Product Page : Firmware Version : 2.00.00 Build Timestamp : 03192013 Language : en

**D-Link**

DSL-2870B // SETUP **ADVANCED** MAINTENANCE STATUS HELP

Virtual Server  
DNS  
Dynamic DNS  
Port Trigger  
IP & MAC Filtering  
Parental Control  
Firewall  
DMZ  
RIP  
IGMP  
**QoS**  
WLAN 2.4G Advanced Settings  
WLAN 5G Advanced Settings  
Routing  
SNMP  
UPnP  
Samba

**QoS**

QoS Configuration prioritizes upstream traffic flow through the device so that interactive data can be delivered first.

**QUEUE MANAGEMENT CONFIGURATION**

If Enable QoS checkbox is selected, choose a default DSCP mark to automatically mark incoming traffic without reference to a particular classifier. Click 'Apply' button to save it.

Enable QoS :

Mark Differentiated Service Code Point (DSCP) : No Change(-1)

**Note:** If Enable QoS checkbox is not selected, all QoS will be disabled for all interfaces. The default DSCP mark is used to mark all egress packets that do not match any classification rules.

Apply

**Note:** Setting changes may require a reboot to take effect.

**Helpful Hints...**  
QoS or Quality of service allows your Router to help prioritise the data packet flow in your router and network. This is very important for time sensitive program as VoIP as it may result in dropped call. Large amounts of non-critical data can be scaled to not effect these sensitive real-time programs.  
More...

In this section, we can enable QoS and configure it.

**Enable QoS:** Enable or disable **QoS** function for this Router

**Mark Differentiated Service Code Point (DSCP):** this option is to select a default DSCP mark to automatically mark incoming traffic without reference to a particular classifier.

Click the **Apply** button to accept the changes made.

**QUEUE MANAGEMENT CONFIGURATION**

If Enable QoS checkbox is selected, choose a default DSCP mark to automatically mark incoming traffic without reference to a particular classifier. Click 'Apply' button to save it.

Enable QoS :

Mark Differentiated Service Code Point (DSCP) : Auto Marking(-2)

**Note:** If Enable QoS checkbox is not selected, all QoS will be disabled for all interfaces. The default DSCP mark is used to mark all egress packets that do not match any classification rules.

Apply

In this section, we can to select this **QoS Queue** and configure it for this router.

**Enable:** Enable or disable the QoS queue.

**Name:** Enter a name for this QoS queue.

**Interface:** Select an interface for this QoS queue.

Click the **Apply** button to accept the changes made.

Click the **Cancel** button to cancel the operation.

**QOS CONFIGURATION**

QoS Queue      QoS Classification      Switch Settings

---

**QUEUE MANAGEMENT CONFIGURATION**

**Enable :**

**Name :**

**Interface :**

In this section, we can view the existing QoS queue rules.

**Status:** It displays the QoS rule status.

**Name:** It displays the QoS rule name.

**Interface:** It displays the interface of the incoming packets for this rule.

**Scheduler:** It displays the queue type of this rule.

**Precedence:** It displays the precedence of this rule.

**Weight:** It displays the weight of this rule.

**Remove:** To remove this rule.

**Edit:** To edit this rule.

EXISTING QOS QUEUE RULES							
Status	Name	Interface	Scheduler	Precedence	Weight	Remove	Edit
Enabled	wl0 Queue 1	wl0	SP	1	-	<input type="checkbox"/>	<input type="radio"/>
Enabled	wl0 Queue 2	wl0	SP	2	-	<input type="checkbox"/>	<input type="radio"/>
Enabled	wl0 Queue 3	wl0	SP	3	-	<input type="checkbox"/>	<input type="radio"/>
Enabled	wl0 Queue 4	wl0	SP	4	-	<input type="checkbox"/>	<input type="radio"/>
Enabled	wl0 Queue 5	wl0	SP	5	-	<input type="checkbox"/>	<input type="radio"/>
Enabled	wl0 Queue 6	wl0	SP	6	-	<input type="checkbox"/>	<input type="radio"/>
Enabled	wl0 Queue 7	wl0	SP	7	-	<input type="checkbox"/>	<input type="radio"/>
Enabled	wl0 Queue 8	wl0	SP	8	-	<input type="checkbox"/>	<input type="radio"/>

In this section, we can to select the **QoS Classification** option and configure it for this router.

**Rule Status:** Enable or disable the QoS rule for this router.

**Traffic Class Name:** Enter a traffic class name for this router.

**Rule Order:** Select the rule as last rule.

**QoS CONFIGURATION**

QoS Queue     QoS Classification     Switch Settings

**NETWORK TRAFFIC CLASS RULE**

The screen creates a traffic class rule to classify the upstream traffic, assign queue which defines the precedence and the interface and optionally overwrite the IP header DSCP byte. A rule consists of a class name and at least one condition below. All of the specified conditions in this classification rule must be satisfied for the rule to take effect. Click 'Apply' to save and activate the rule.

**Rule Status :**

**Traffic Class Name :**

**Rule Order :** Last ▾

In this section, we can configure classification criteria for this rule.

**Class Interface:** Specify incoming packets from which interface for this QoS classification.

**Ether Type:** Specify incoming packets which Ethernet type for this QoS classification, this option includes: **IP (0x800)**, **ARP (0x806)**, **IPv6 (0x86DD)**, **PPPoE\_DISC (0x8863)**, **PPPoE\_SES (0x8864)**, **8865 (0x8865)** and **8866 (0x8866)**.

**Source MAC Address:** Specify source MAC address of incoming packets for this QoS classification.

**Source MAC Mask:** Specify source MAC mask of incoming packets for this QoS classification.

**Destination MAC Address:** Specify destination MAC address of incoming packets for this QoS classification.

**Destination MAC Mask:** Specify destination MAC mask of incoming packets for this QoS classification.

**Source IP Address [/Mask]:** Specify source IP address and subnet mask of incoming packets for this QoS classification, only select **IP (0x800)** and **IPv6 (0x86DD)**.

**Destination IP Address [/Mask]:** Specify destination IP address and subnet mask of incoming packets for this QoS classification, only select **IP (0x800)** and **IPv6 (0x86DD)**, only select **IP (0x800)** and **IPv6 (0x86DD)**.

**Differentiated Service Code Point (DSCP) Check:** Select the DSCP value that will be checked by the classifier.

**SPECIFY CLASSIFICATION CRITERIA**

A blank criterion indicates it is not used for classification.

**Class Interface :** LAN ▾

**Ether Type :** IP (0x800) ▾

**Source MAC Address :**

**Source MAC Mask :**

**Destination MAC Address :**

**Destination MAC Mask :**

**Source IP Address[/Mask] :**

**Destination IP Address[/Mask] :**

**Differentiated Service Code Point (DSCP) Check :**

**Protocol :** ▾

**Protocol:** Select protocol for this QoS classification, only select **IP (0x800)** and **IPv6 (0x86DD)**, this option can be operated, options includes **TCP, UDP, ICMP** and **IGMP**.

In this section, we can assign QoS classification to a queue and mark DSCP, 802.1p priority, VLAN ID and specify rate limit for this QoS classification.

**Assign Classification Queue:** Set the Assign Classification Queue field depending on your type of connection.

**Mark Differentiated Service Code Point (DSCP):** the DSCP value that will be set by the traffic class rule.

**Mark 802.1P Priority:** In the scale from 0 -7, 0 is best effort, 6 and 7 are reserved.

**Tag VLAN ID:** Set the Tag VLAN ID for the LAN egress traffic.

**Rate Limit:** Set the Rate Control if you wish to have a limit to the bandwidth, or else leave this field blank.

Click the **Apply** button to accept the changes made.

Click the **Cancel** button to cancel the operation.

In this section, we can enable Switch Settings and configure it.

**Schedule:** Configure the Queue Type that will be applied on the ether switch.

**Combo type:** If on you set Queue type to **SP+WRR combo**, this setting will be display.

Click the **Apply** button to accept the changes made.

### SPECIFY CLASSIFICATION RESULTS

Must select a classification queue. A blank mark or tag value means no change.

**Assign Classification Queue :**

**Mark Differentiated Service Code Point (DSCP) :**

**Mark 802.1p priority :**

**Tag VLAN ID :**  (0-4094)

**Rate Limit :**  ( kbps )

### SWITCH CONTROL CONFIGURATION

**Schedule :**

**Combo type :**

Queue Type	Precedence	Weight
SP	1	<input type="text" value="8"/>
WRR	2	<input type="text" value="4"/>
WRR	3	<input type="text" value="2"/>
WRR	4	<input type="text" value="1"/>

## Advanced Wireless 2.4G

To access the **Advanced Wireless 2.4G** page, click on the **Advanced** menu link, at the top, and then click on the **WLAN 2.4G Advanced Settings** menu link, on the left.

On this page, the user can configure advanced services related to the Wireless 2.4Ghz connectivity of this product.

Services available for configuration are the following:

- [Access Rules](#)
- [Multiple SSIDs](#)
- [Performance](#)

The screenshot displays the D-Link DSL-2870B Advanced Wireless 2.4G settings page. The interface is divided into several sections:

- Navigation Menu:** Includes links for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. A sidebar on the left lists various configuration options, with 'WLAN 2.4G Advanced Settings' highlighted.
- WLAN ACCESS RULES - ADD:** A section for adding new access rules. It includes a description: "This page enables users to allow or deny specific wireless devices to connect to the wireless network by specifying the MAC address (one address per rule / format of MAC Address: aa:aa:aa:aa:aa:aa)."
- WLAN ACCESS RULES:** A section for managing existing rules. It shows "Existing SSIDs : dlink-2870B-z" and "Access Rule Status :  Disabled  Enabled". The "Access Rule" is set to "allow" (selected) or "deny".
- ADD WLAN ACCESS RULES:** A section for adding a new rule. It includes an "Active" checkbox (checked) and a "MAC Address" field containing "01-02-03-04-05-06". An "Apply" button is located below this section.
- EXISTING ACCESS RULES:** A table listing existing rules with columns for "Active", "Network", "Remove", and "Edit". The table contains one entry: "Active" (checked), "Network" (01-02-03-04-05-06), "Remove" (checkbox), and "Edit" (radio). A "Remove Selected" button is located below the table.
- Helpful Hints..:** A sidebar on the right providing instructions: "Create a list of MAC addresses that you would either like to allow or deny users access to the wireless router. Click on Remove if you want to take out a MAC address from the MAC filter list." A "More..." link is also present.

## Access Rules

Click the **WALN 2.4G Access Rules** on the left to access the **Wireless 2.4G Access Rules Settings** configuration page.

**D-Link**

DSL-2870B // SETUP ADVANCED MAINTENANCE STATUS HELP

Virtual Server  
DNS  
Dynamic DNS  
Port Trigger  
IP & MAC Filtering  
Parental Control  
Firewall  
DMZ  
RIP  
IGMP  
QoS  
WLAN 2.4G Advanced Settings  
WLAN 5G Advanced Settings  
Routing  
SNMP  
UPnP  
Samba  
DSL Line Settings  
URL Redirect

**WLAN ACCESS RULES - ADD**

This page enables users to allow or deny specific wireless devices to connect to the wireless network by specifying the MAC address (one address per rule / format of MAC Address: aa:aa:aa:aa:aa:aa).

**WLAN ACCESS RULES**

Existing SSIDs : dlink-2870B-z  
Access Rule Status :  Disabled  Enabled  
Access Rule :  allow  deny

**ADD WLAN ACCESS RULES**

Active :   
MAC Address : 01-02-03-04-05-06

Apply

**EXISTING ACCESS RULES**

Active	Network	Remove	Edit
Active	01-02-03-04-05-06	<input type="checkbox"/>	<input type="radio"/>

Remove Selected

**Helpful Hints..**  
Create a list of MAC addresses that you would either like to allow or deny users access to the wireless router. Click on Remove if you want to take out a MAC address from the MAC filter list.  
More...

In this section, we can change the global wireless filter policy to what you like to deny or allow special WLAN devices connected to the router.

**Existing SSIDs:** It displays the existing SSID.

**Access Rule Status:** Enable or disable the access rule status for the existing SSID.

**Access Rule:** Specify the access rule as allow or deny.

**Active:** To active the rule or inactive the access rule.

**MAC Address:** Enter the MAC address to allow access or deny access.

Click the **Apply** button to accept the changes made.

**WLAN ACCESS RULES**

Existing SSIDs : dlink-2870B-z  
Access Rule Status :  Disabled  Enabled  
Access Rule :  allow  deny

**ADD WLAN ACCESS RULES**

Active :   
MAC Address : 01-02-03-04-05-06

Apply



## Multiple SSIDs

Click the **Multiple WLAN 2.4G SSIDs** on the left to access the **Advanced Wireless Multiple SSIDs** configuration page.

**D-Link**

DSL-2870B // SETUP ADVANCED MAINTENANCE STATUS HELP

**MULTIPLE SSIDS**

The SSID is name of your WLAN. Do not use standard term, e.g. WLAN, as SSID.

**ADD MULTIPLE WLAN SSIDS**

Multiple SSIDs :  Disable  Enable

**EXISTING SSIDS**

SSID	Enabled
dap2870	<input checked="" type="checkbox"/>
dlink-2870B-z-Guest1	<input type="checkbox"/>
dlink-2870B-z-Guest2	<input type="checkbox"/>
dlink-2870B-z-Guest3	<input type="checkbox"/>

Apply

**Note:** Setting changes may require a reboot to take effect.

**Helpful Hints...**  
The SSID is name of your WLAN. Do not use standard term, e.g. WLAN, as SSID.  
More...

In this section, the Dual band Wireless N750 Modem Router supports Multiple SSIDs so you can operate several WLANs in parallel.

**Multiple SSIDs:** Enable or disable multiple SSID for this router.

**SSID:** Enter the SSID name for this router.

**Enable:** Enable or disable the SSID for this router.

Click the **Apply** button to accept the changes made.

**ADD MULTIPLE WLAN SSIDS**

Multiple SSIDs :  Disable  Enable

**EXISTING SSIDS**

SSID	Enabled
dap2870	<input checked="" type="checkbox"/>
dlink-2870B-z-Guest1	<input checked="" type="checkbox"/>
dlink-2870B-z-Guest2	<input checked="" type="checkbox"/>
dlink-2870B-z-Guest3	<input checked="" type="checkbox"/>

Apply

## Performance

Click the **WALN 2.4G Performance** on the left to access the **Advanced Wireless Performance** configuration page.

The screenshot shows the D-Link web interface for the DSL-2870B modem router. The top navigation bar includes tabs for SETUP, ADVANCED (selected), MAINTENANCE, STATUS, and HELP. A left sidebar lists various configuration options, with 'WLAN 2.4G Advanced Settings' highlighted. The main content area is titled 'WLAN PERFORMANCE' and contains the following settings:

- Beacon Interval :** 100 msec. (Range: 1-1000, Standard: 100)
- DTIM :** 1 (Range: 1-25, Standard: 1)
- Transmitting Power :** 100% (dropdown menu)
- Threshold for RTS :** 2346 (Standard: 2346)
- Threshold for Fragmentation :** 2346 (Standard: 2346)
- WMM :**  Disable  Enable
- 802.11 Mode :** Mixed 802.11a and 802.11n (dropdown menu)
- Channel Width :** Auto 20/40 MHz (dropdown menu)

An 'Apply' button is located at the bottom of the settings area. A red note below the button states: "Note: Setting changes may require a reboot to take effect." On the right side of the page, there is a 'Helpful Hints..' section with a note about antenna placement and a 'More...' link.

After clicking the **WLAN 2.4G Performance** the following page is available.

In this section, we can configure the additional settings for configuring your wireless network.

**Beacon Period:** A packet of information that is sent from a connected device to all other devices where it announces its availability and readiness. A beacon interval is a period of time (sent with the beacon) before sending the beacon again. The beacon interval may be adjusted in milliseconds (ms).

**DTIM Interval:** Sets the Wake-up interval for clients in power-saving mode.

**Transmitting Power:** This is the percentage of power that should be transmitted from your wireless router. Select from 12.5%, 25%, 50% and 100%.

**Threshold for RTS:** Determines the packet size of a transmission through the use of the router to help control traffic flow. Generally, there is no need to change this value. If the flow of traffic becomes, change the value within the range between 1 and 2346. Default value is 2346.

**Threshold for Fragmentation:** Default value: 2346. Threshold for breaking down of data packets; measured in bytes. Data packets large than 2,346 bytes are broken down before transmission. Generally there is no need to change this value, except for a huge packet error rate. Change the value within the range between 256 and 2,346.

Please note: Choosing a low value for fragmentation may result in bad data transfer rates.

**WMM:** Wi-Fi Multimedia (WMM), is a Wi-Fi Alliance interoperability certification, based on the IEEE 802.11e standard. It provides basic Quality of service (QoS) features to IEEE 802.11 networks.

**802.11 Mode:** Sets the current 802.11 mode. For WLAN 2.4G, you can select 802.11b only, 802.11g only, 802.11n only, or the mixed mode. For WLAN 5G, you can select 802.11a only, 802.11n only or the mixed mode.

**Channel Width:** Specify the channel width, it includes: 20MHz, 40MHz and Auto 20/40 MHz.

Click the **Apply** button to accept the changes made.

**WLAN PERFORMANCE**

**Beacon Interval :** 100 msec.  
Range: 1-1000, Standard: 100

**DTIM :** 1  
Range: 1-25, Standard: 1

**Transmitting Power :** 100%

**Threshold for RTS :** 2346  
Standard: 2346

**Threshold for Fragmentation :** 2346  
Standard: 2346

**WMM :**  Disable  Enable

**802.11 Mode :** Mixed 802.11n, 802.11g and 802.11b

**Channel Width :** Auto 20/40 MHz

Apply

## Advanced Wireless 5G

To access the **Advanced Wireless 5G** page, click on the **Advanced** menu link, at the top, and then click on the **WLAN 5G Advanced Settings** menu link, on the left.

On this page, the user can configure advanced services related to the Wireless 2.4Ghz connectivity of this product.

Services available for configuration are the following:

- [Access Rules](#)
- [Multiple SSIDs](#)
- [Performance](#)

The screenshot displays the D-Link configuration interface for the DSL-2870B. The top navigation bar includes 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various configuration options, with 'WLAN 5G Advanced Settings' selected. The main content area is titled 'WLAN ACCESS RULES - ADD' and contains the following sections:

- WLAN ACCESS RULES - ADD**: A header section with a description: "This page enables users to allow or deny specific wireless devices to connect to the wireless network by specifying the MAC address (one address per rule / format of MAC Address: aa:aa:aa:aa:aa:aa)." Below this, it shows 'Existing SSIDs : dlink-2870B-z', 'Access Rule Status :  Disabled  Enabled', and 'Access Rule :  allow  deny'.
- ADD WLAN ACCESS RULES**: A section with 'Active : ' and 'MAC Address : 01-02-03-04-05-06'. An 'Apply' button is located below.
- EXISTING ACCESS RULES**: A table with the following data:

Active	Network	Remove	Edit
Active	01-02-03-04-05-06	<input type="checkbox"/>	<input type="radio"/>

A 'Remove Selected' button is positioned below the table.

On the right side, there is a 'Helpful Hints...' section with text: "Create a list of MAC addresses that you would either like to allow or deny users access to the wireless router. Click on Remove if you want to take out a MAC address from the MAC filter list." and a 'More...' link.

## Access Rules

Click the **WALN 5G Access Rules** on the left to access the **Wireless 5G Access Rules Settings** configuration page.

**D-Link**

DSL-2870B // SETUP ADVANCED MAINTENANCE STATUS HELP

Virtual Server  
DNS  
Dynamic DNS  
Port Trigger  
IP & MAC Filtering  
Parental Control  
Firewall  
DMZ  
RIP  
IGMP  
QoS  
WLAN 2.4G Advanced Settings  
WLAN 5G Advanced Settings  
Routing  
SNMP  
UPnP  
Samba  
DSL Line Settings  
URL Redirect

**WLAN ACCESS RULES- ADD**

This page enables users to allow or deny specific wireless devices to connect to the wireless network by specifying the MAC address (one address per rule / format of MAC Address: aa:aa:aa:aa:aa:aa).

**WLAN ACCESS RULES**

Existing SSIDs : dlink-2870B-z  
Access Rule Status :  Disabled  Enabled  
Access Rule :  allow  deny

**ADD WLAN ACCESS RULES**

Active :   
MAC Address : 01-02-03-04-05-06

Apply

**EXISTING ACCESS RULES**

Active	Network	Remove	Edit
Active	01-02-03-04-05-06	<input type="checkbox"/>	<input type="radio"/>

Remove Selected

**Helpful Hints...**  
Create a list of MAC addresses that you would either like to allow or deny users access to the wireless router. Click on Remove if you want to take out a MAC address from the MAC filter list.  
More...

In this section, we can change the global wireless filter policy to what you like to deny or allow special WLAN devices connected to the router.

**Existing SSIDs:** It displays the existing SSID.

**Access Rule Status:** Enable or disable the access rule status for the existing SSID.

**Access Rule:** Specify the access rule as allow or deny.

**Active:** To active the rule or inactive the access rule.

**MAC Address:** Enter the MAC address to allow access or deny access.

Click the **Apply** button to accept the changes made.

**WLAN ACCESS RULES**

Existing SSIDs : dlink-2870B-z  
Access Rule Status :  Disabled  Enabled  
Access Rule :  allow  deny

**ADD WLAN ACCESS RULES**

Active :   
MAC Address : 01-02-03-04-05-06

Apply

## Multiple SSIDs

Click the **Multiple WALN 5G SSIDs** on the left to access the **Advanced Wireless Multiple SSIDs** configuration page.

The screenshot shows the D-Link web interface for the DSL-2870B. The 'ADVANCED' tab is selected. On the left sidebar, 'WLAN 5G Advanced Settings' is highlighted. The main content area is titled 'MULTIPLE SSIDS' and contains the following elements:

- A header section with the text: "The SSID is name of your WLAN. Do not use standard term, e.g. WLAN, as SSID."
- A section titled 'ADD MULTIPLE WLAN SSIDS' with a radio button for 'Multiple SSIDs' set to 'Disable'.
- A table titled 'EXISTING SSIDS' with columns 'SSID' and 'Enabled':
 

SSID	Enabled
dap2870	<input checked="" type="checkbox"/>
dlink-2870B-z-Guest1	<input type="checkbox"/>
dlink-2870B-z-Guest2	<input type="checkbox"/>
dlink-2870B-z-Guest3	<input type="checkbox"/>
- An 'Apply' button at the bottom.
- A red note: "Note: Setting changes may require a reboot to take effect."

In this section, the Dual band Wireless N750 Modem Router supports Multiple SSIDs so you can operate several WLANs in parallel.

**Multiple SSIDs:** Enable or disable multiple SSID for this router.

**SSID:** Enter the SSID name for this router.

**Enable:** Enable or disable the SSID for this router.

Click the **Apply** button to accept the changes made.

This screenshot shows the same configuration page as above, but with the 'Multiple SSIDs' radio button set to 'Enable'. The 'EXISTING SSIDS' table now shows all guest SSIDs with their 'Enabled' checkboxes checked:

SSID	Enabled
dap2870	<input checked="" type="checkbox"/>
dlink-2870B-z-Guest1	<input checked="" type="checkbox"/>
dlink-2870B-z-Guest2	<input checked="" type="checkbox"/>
dlink-2870B-z-Guest3	<input checked="" type="checkbox"/>

Apply

## Performance

Click the **WALN 5G Performance** on the left to access the **Advanced Wireless Performance** configuration page.

The screenshot shows the D-Link web interface for the DSL-2870B modem router. The top navigation bar includes 'DSL-2870B', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various configuration options, with 'WLAN 5G Advanced Settings' highlighted. The main content area is titled 'WLAN PERFORMANCE' and contains the following settings:

- Beacon Interval:** 100 msec. (Range: 1-1000, Standard: 100)
- DTIM:** 1 (Range: 1-25, Standard: 1)
- Transmitting Power:** 100% (dropdown menu)
- Threshold for RTS:** 2346 (Standard: 2346)
- Threshold for Fragmentation:** 2346 (Standard: 2346)
- WMM:**  Disable  Enable
- 802.11 Mode:** Mixed 802.11a and 802.11n (dropdown menu)
- Channel Width:** Auto 20/40 MHz (dropdown menu)

An 'Apply' button is located at the bottom of the settings area. A red note below the button states: "Note: Setting changes may require a reboot to take effect." On the right side of the page, there is a 'Helpful Hints..' section with a note: "Please note: The position of the Dualband Wireless N750 Modem Router may influence the performance, specially the range of the radio signal." and a 'More...' link.

After clicking the **WLAN 5G Performance** the following page is available.

In this section, we can configure the additional settings for configuring you're wireless network.

**Beacon Period:** A packet of information that is sent from a connected device to all other devices where it announces its availability and readiness. A beacon interval is a period of time (sent with the beacon) before sending the beacon again. The beacon interval may be adjusted in milliseconds (ms).

**DTIM Interval:** Sets the Wake-up interval for clients in power-saving mode.

**Transmitting Power:** This is the percentage of power that should be transmitted from your wireless router. Select from 12.5%, 25%, 50% and 100%.

**Threshold for RTS:** Determines the packet size of a transmission through the use of the router to help control traffic flow. Generally, there is no need to change this value. If the flow of traffic becomes, change the value within the range between 1 and 2346. Default value is 2346.

**Threshold for Fragmentation:** Default value: 2346. Threshold for breaking down of data packets; measured in bytes. Data packets large than 2,346 bytes are broken down before transmission. Generally there is no need to change this value, except for a huge packet error rate. Change the value within the range between 256 and 2,346.

Please note: Choosing a low value for fragmentation may result in bad data transfer rates.

**WMM:** Wi-Fi Multimedia (WMM), is a Wi-Fi Alliance interoperability certification, based on the IEEE 802.11e standard. It provides basic Quality of service (QoS) features to IEEE 802.11 networks.

**802.11 Mode:** Sets the current 802.11 mode. For WLAN 2.4G, you can select 802.11b only, 802.11g only, 802.11n only, or the mixed mode. For WLAN 5G, you can select 802.11a only, 802.11n only or the mixed mode.

**Channel Width:** Specify the channel width, it includes: 20MHz, 40MHz and Auto 20/40 MHz.

Click the **Apply** button to accept the changes made.

**WLAN PERFORMANCE**

**Beacon Interval :** 100 msec.  
Range: 1-1000, Standard: 100

**DTIM :** 1  
Range: 1-25, Standard: 1

**Transmitting Power :** 100% ▾

**Threshold for RTS :** 2346  
Standard: 2346

**Threshold for Fragmentation :** 2346  
Standard: 2346

**WMM :**  Disable  Enable

**802.11 Mode :** Mixed 802.11a and 802.11n ▾

**Channel Width :** Auto 20/40 MHz ▾

Apply



## Routing

To access the **Routing** page, click on the **Advanced** menu link, at the top, and then click on the **Routing** menu link, on the left.

On this page, the user can configure services related to the Routing feature of this product.

Services available for configuration are the following:

- [Add IPv4 Routing](#)
- [Add IPv6 Routing](#)

The screenshot displays the D-Link DSL-2870B web interface. At the top, the D-Link logo is visible. Below it, a navigation bar contains tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The ADVANCED tab is selected. On the left side, a vertical menu lists various configuration options, with 'Routing' highlighted. The main content area is titled 'ROUTING' and contains the following sections:

- ROUTING**: A text box explaining that routes for traffic are defined in the routing table and that IP Address and Gateway are sufficient for most cases.
- ROUTING TYPE**: Two radio buttons for 'IPv4 Routing' (selected) and 'IPv6 Routing'.
- ADD ROUTING**: A form with the following fields:
  - Enable Routing Rule:
  - Destination Address:
  - Destination Subnet Mask:
  - Interface: A dropdown menu currently showing 'LAN1'.
  - Gateway IP Address:
  - An 'Apply' button at the bottom.

On the right side, there is a 'Helpful Hints...' section with text explaining routing protocols and a 'More...' link. At the bottom of the interface, a red note states: 'Note: Setting changes may require a reboot to take effect.'

### Add IPv4 Routing

Click the IPv4 Routing button to access the IPv4 Routing configuration page.

**ROUTING TYPE**

IPv4 Routing
  IPv6 Routing

After clicking the **IPv4 Routing** button the following page is available.

**Enable Routing Rule:** Enable or disable the routing rule for this router.

**Destination Address:** Enter a destination address for the routing rule.

**Destination Subnet Mask:** Enter a subnet mask address for the routing rule.

**Interface:** Specify the interface for this routing rule.

**Gateway IP address:** Specify gateway IP address for this routing rule.

**ROUTING TYPE**

IPv4 Routing
  IPv6 Routing

**ADD ROUTING**

**Enable Routing Rule :**

**Destination Address :**

**Destination Subnet Mask :**

**Interface :** LAN1 ▼

**Gateway IP Address :**

Click **Apply** button to commit the configuration.

In this section, a list of IPv4 static route entries will be displayed.

Click the **Remove Selected** button to remove the selected entry.

**ROUTING TABLE**

Status	Network	Interface	Gateway	Remove	Edit
Active	192.168.1.3	LAN1	192.168.1.1	<input type="checkbox"/>	<input type="radio"/>
Inactive	192.168.1.4	LAN1	192.168.1.1	<input type="checkbox"/>	<input type="radio"/>

## Add IPv6 Routing

Click the IPv6 Routing button to access the IPv6 Routing configuration page.

After clicking the **IPv6 Routing** button the following page is available.

**Enable Routing Rule:** Enable/disable IPv6 routing

**Destination IPv6 Address/Prefix Length:** Enter the destination IP address and prefix length for this route entry here.

**Metric:** Enter the metric value, used by this route entry, here.

**Interface:** Select the interface this will be associated with this rule here.

**Gateway IPv6 Address:** Enter the gateway IP address for this route entry here.

Click the **Apply** button to accept the changes made

### ROUTING TYPE

IPv4 Routing  IPv6 Routing

### ADD ROUTING

Enable Routing Rule :

Destination IPv6 Address/Prefix Length :  /

Metric :  (Optional)

Interface : LAN1

Gateway IPv6 Address :

In this section, a list of IPv6 static route entries will be displayed.

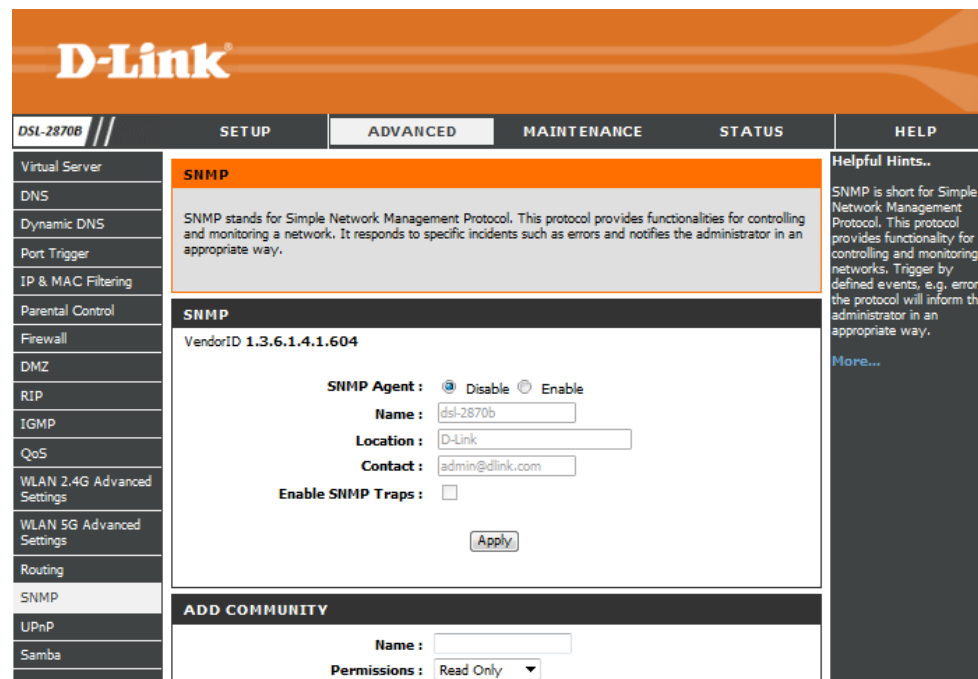
Click the **Remove Selected** button to remove the selected entries.

ROUTING TABLE						
Status	Network	Interface	Gateway	Metric	Remove	Edit
Inactive	CDCD:910A:2222:5498:8 475:1111:3900:2021	LAN1	CDCD:910A:2222:5498:8 475:1111:3900:2022	22	<input type="checkbox"/>	<input type="radio"/>

## SNMP

To access the **SNMP** page, click on the **Advanced** menu link, at the top, and then click on the **SNMP** menu link, on the left.

On this page, the user can configure services related to the SNMP feature of this product.



In this section, we can configure the SNMP server parameters for this router.

**SNMP Agent:** Select this option to enable or disable the SNMP feature.

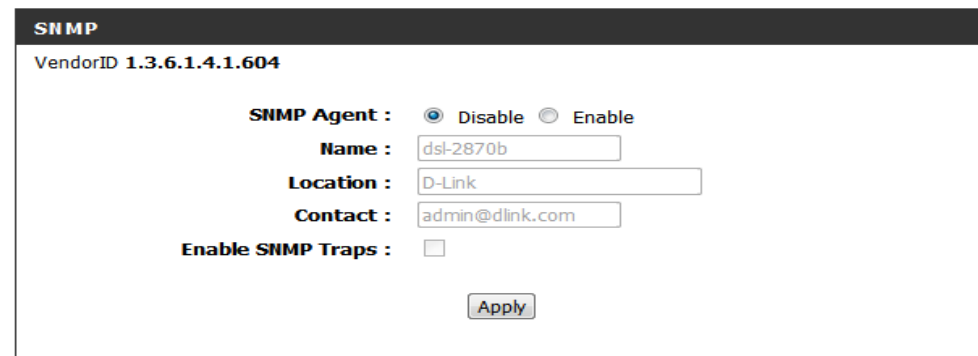
**Name:** Enter the SNMP name here.

**Location:** Enter the SNMP location here.

**Contact:** Enter the SNMP location here.

**Enable SNMP Traps:** Select this option to enable or disable the SNMP traps.

Click the **Apply** button to accept the changes made.



In this section, a list of **SNMP** community will be displayed.

Click the **Remove Selected** button to remove the selected entry.

EXISTING COMMUNITY			
Name	Rights	Remove	Edit
public	rocommunity	<input type="checkbox"/>	<input type="radio"/>

In this section, we can add the SNMP traps parameters for this router.

**Destination IP Address:** Enter the SNMP traps IP address.

**Community Settings:** Select this option to choose community.

**Version:** Select this option to choose SNMP version.

Click the **Apply** button to accept the changes made.

ADD TRAPS	
<b>Destination IP Address :</b>	<input type="text"/>
<b>Community Settings :</b>	public ▾
<b>Version :</b>	SNMP v1 ▾
<input type="button" value="Apply"/>	

In this section, a list of SNMP traps will be displayed.

Click the **Remove Selected** button to remove the selected entry.

EXISTING TRAPS				
Destination IP Address	Community	Version	Remove	Edit
192.168.1.1	public	SNMP v1	<input type="checkbox"/>	<input type="radio"/>

## UPnP

To access the **UPnP** page, click on the **Advanced** menu link, at the top, and then click on the **UPnP** menu link, on the left.

On this page the user can configure services related to the **UPnP** feature of this product.

**D-Link**

DSL-2870B // SETUP ADVANCED MAINTENANCE STATUS HELP

**UPNP**

Universal Plug and Play (UPnP) supports peer-to-peer Plug and Play functionality for network devices.

**UPNP SETTINGS**

UPnP :  Disable  Enable

UPnP AV :  Disable  Enable

Apply

**Note:** Setting changes may require a reboot to take effect.

**Helpful Hints...**

UPnP is used for many popular Audio Visual software. It allows the auto discovery of your device on the network. If you feel that UPnP is security concern we give you the option to disable it here

[More...](#)

In this section, we can configure the UPnP parameters for this router.

**UPnP:** Select this option to enable or disable the UPnP feature.

**UPnP AV:** Select this option to enable or disable the UPnP AV feature.

Click the **Apply** button to accept the changes made.

**UPNP SETTINGS**

UPnP :  Disable  Enable

UPnP AV :  Disable  Enable

Apply

## Samba

To access the **Samba** page, click on the **Advanced** menu link, at the top, and then click on the **Samba** menu link, on the left.

On this page, the user can configure services related to the Samba connectivity of this product.

The screenshot displays the D-Link web interface for the DSL-2870B. The top navigation bar includes 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various configuration options, with 'Samba' highlighted. The main content area is titled 'Samba' and contains a description: 'Samba is the protocol by which a lot of PC related machines share files and printers and other information such as lists of available files and printers. Operating systems that support this natively include Windows 9x, Windows NT, OS/2, Mac OS X and Linux.' Below this is the 'Samba SETTINGS' section, which includes: 'Samba :  Disable  Enable', 'NetBIOS Name : DSL-2870B', 'Workgroup : MSHOME', 'User account :  Disable  Enable', 'Username : admin', and 'Password : admin'. An 'Apply' button is located at the bottom of the settings section. A red note at the bottom states: 'Note: Setting changes may require a reboot to take effect.' On the right side, there is a 'Helpful Hints..' section with the text 'Samba allows you to enable USB storage samba.' and a 'More...' link.



In this section, we can configure the Samba server parameters for this router.

**Samba:** Select this option to enable the Samba server feature.

**NetBIOS Name:** Enter the NetBIOS name used here.

**Workgroup:** Enter the workgroup name used here.

**User account:** Select this option to on/off the Samba account.

**Username:** Enter the samba account username used here.

Click the **Apply** button to accept the changes made.

### SAMBA SETTINGS

**Samba :**  Disable  Enable

**NetBIOS Name :**

**Workgroup :**

**User account :**  Disable  Enable

**Username :**

**Password :**

## DSL Line Settings

To access the **DSL Line Settings** page, click on the **Advanced** menu link, at the top, and then click on the **DSL Line Settings** menu link, on the left.

On this page, we can configure **DSL Line Settings** Tunnel Mode connections.

The screenshot shows the D-Link DSL-2870B Advanced DSL Line Settings page. The interface includes a top navigation bar with the D-Link logo and a menu with tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. A left sidebar lists various configuration options, with DSL Line Settings highlighted. The main content area is titled 'DSL SETUP' and contains a grey box with the text: 'This page allows you to configure the modem's DSL modulation.' Below this is the 'DSL SETTING' section, which is divided into 'ADSL Settings' and 'VDSL Settings'. The ADSL Settings section includes a 'Modulation Type' dropdown menu set to 'auto', a 'Phone Line Pair' section with radio buttons for 'Inner Pair' (selected) and 'Outer Pair', and checkboxes for 'Bitswap' (checked) and 'SRA' (unchecked). The VDSL Settings section includes a 'Modulation Type' dropdown menu set to 'auto' and a 'US0' checkbox (checked). An 'Apply' button is located at the bottom right of the settings area. On the right side of the page, there is a 'Helpful Hints..' section with the text: 'Do not change these settings unless directed by your ISP.' and a 'More...' link.

In this section, we can configure the Samba server parameters for this router.

**Modulation Type:** Select this option to choose modulation type.

**Phone Line Pair:** Select this option to choose phone line pair.

**Bitswap:** Select this option to enable the Bitswap feature.

**SRA:** Select this option to enable the SRA feature.

**USO:** Select this option to enable the USO feature.

Click the **Apply** button to accept the changes made.

### DSL SETTING

**ADSL Settings:**  
**Modulation Type:** auto ▾  
**Phone Line Pair:**  Inner Pair  Outer Pair  
**Bitswap:**   
**SRA:**

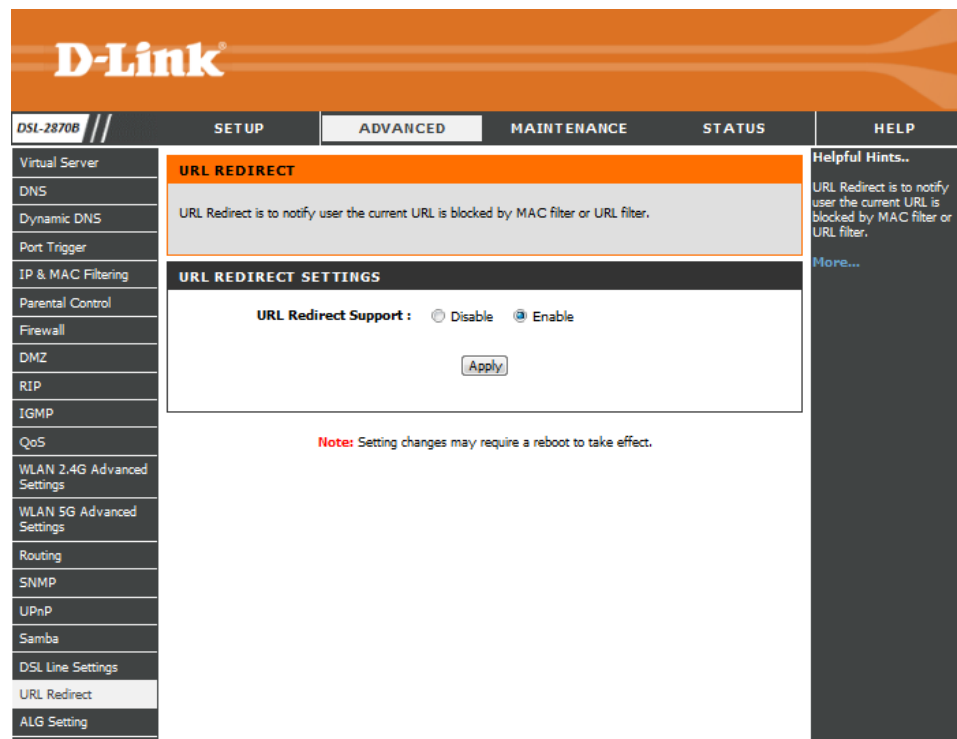
**VDSL Settings:**  
**Modulation Type:** auto ▾  
**USO:**

Apply

## URL Redirect

To access the **URL Redirect** page, click on the **Advanced** menu link, at the top, and then click on the **URL Redirect** menu link, on the left.

On this page, we can configure URL Redirect Tunnel Mode connections.

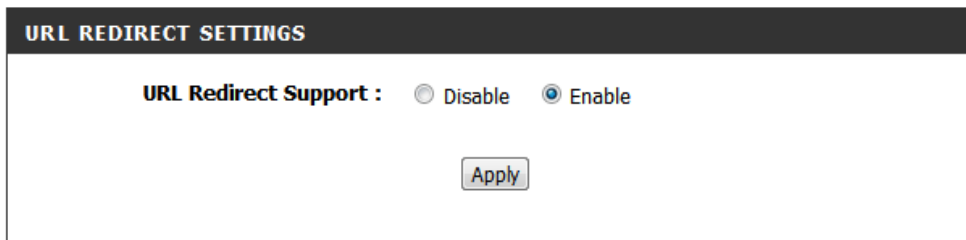


The screenshot shows the D-Link router's web interface. At the top, there is a navigation bar with tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The ADVANCED tab is selected. On the left side, there is a vertical menu with various settings options, including Virtual Server, DNS, Dynamic DNS, Port Trigger, IP & MAC Filtering, Parental Control, Firewall, DMZ, RIP, IGMP, QoS, WLAN 2.4G Advanced Settings, WLAN 5G Advanced Settings, Routing, SNMP, UPnP, Samba, DSL Line Settings, URL Redirect, and ALG Setting. The URL Redirect option is highlighted. The main content area is titled 'URL REDIRECT' and contains a sub-section 'URL REDIRECT SETTINGS'. In this section, there is a toggle for 'URL Redirect Support' with radio buttons for 'Disable' and 'Enable', where 'Enable' is selected. Below the toggle is an 'Apply' button. A red note below the settings states: 'Note: Setting changes may require a reboot to take effect.' On the right side of the interface, there is a 'Helpful Hints..' section with text explaining that URL Redirect is used to notify users when a URL is blocked by a MAC filter or URL filter, and a 'More...' link.

In this section, we can configure the URL Redirect parameters for this router.

**URL Redirect Support:** Select this option to enable or disable URL Redirect Support feature..

Click the **Apply** button to accept the changes made.

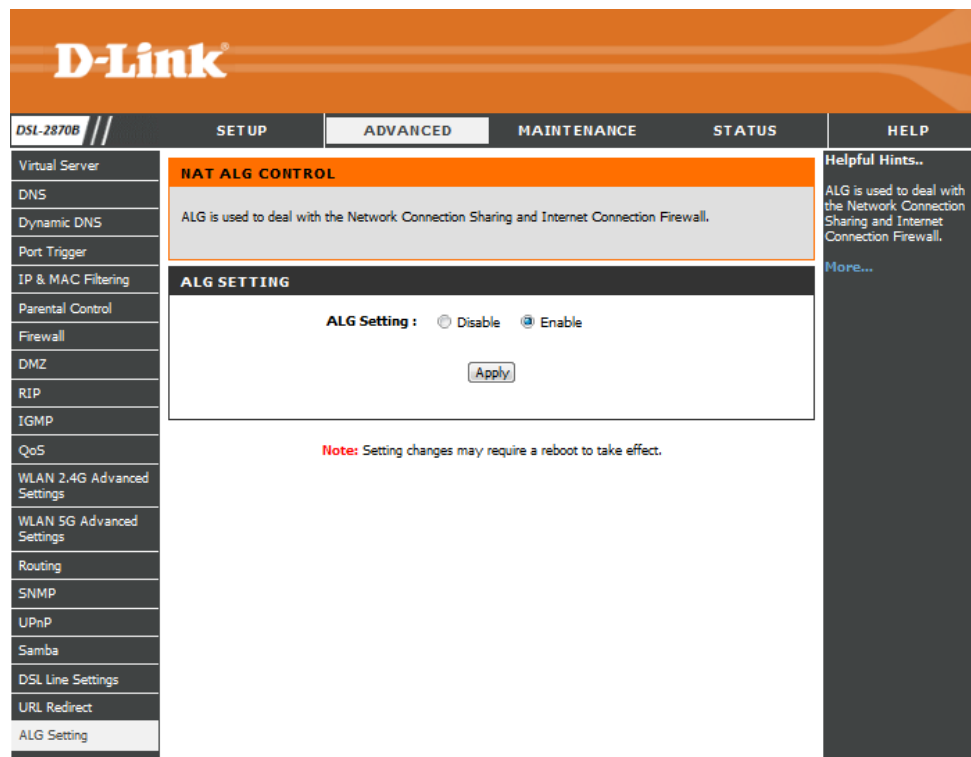


This is a close-up screenshot of the 'URL REDIRECT SETTINGS' section from the previous image. It shows the 'URL Redirect Support' toggle with the 'Enable' radio button selected and the 'Apply' button below it.

## ALG Setting

To access the **ALG Setting** page, click on the **Advanced** menu link, at the top, and then click on the **ALG Setting** menu link, on the left.

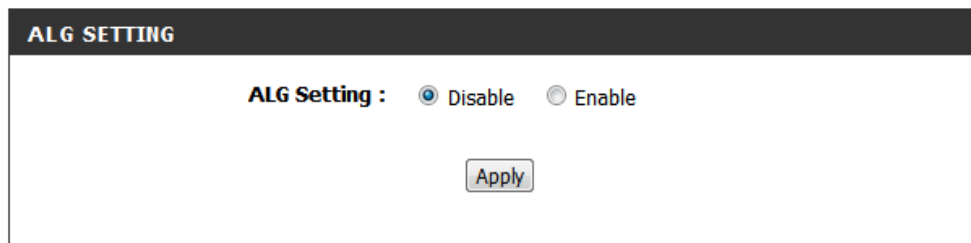
On this page, we can configure ALG Setting connectivity of this product.



In this section, we can configure the ALG parameters for this router.

**ALG Setting:** Select this option to enable or disable ALG feature..

Click the **Apply** button to accept the changes made.



## Budget Quota

To access the **Budget Quota** page, click on the **Advanced** menu link, at the top, and then click on the **Budget Quota** menu link, on the left.

On this page, we can configure **Budget Quota** Setting connectivity of this product.

The screenshot displays the D-Link web management interface for the DSL-2870B. The top navigation bar includes 'DSL-2870B', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various configuration options, with 'Budget Quota' selected. The main content area is titled 'BUDGET QUOTA' and contains the following text: 'Budget Quota can be used to implement the limitation quota and other functions.' Below this is a section for 'LIMITAION QUOTA SETTINGS' (note the typo) with the option 'Enable Budget Quota :  Disable  Enable'. There are 'Save/Apply' and 'Reset' buttons. A red note states: 'Please take notice that you can click the "Refresh" button to refresh the Budget Quota page and display the new traffic information per 30 seconds.' Another red note at the bottom says: 'Note: Setting changes may require a reboot to take effect.' On the right side, there is a 'Helpful Hints..' section with instructions on how to use the interface, and a 'More...' link.

In this section, we can configure the **Budget Quota** parameters for this router.

**ALG Setting:** Select this option to enable or disable ALG feature..

**Select interface:** Select this option to choose the interface you want to control.

**Enable current interface control:** Select this option to enable or disable current interface control.

**Limit time (days):** Enter the limit days here.

**Start router time:** It is system time and can't be set here.

**Enable download quota:** Select this option to enable or disable download quota control.

**Download quota (Max, MB):** Enter the limit download quota here.

**Enable upload quota:** Select this option to enable or disable upload quota control.

**Upload quota(Max,MB):** Enter the limit upload quota here.

Click the **Save/Apply** button to accept the changes made.

Click the **Reset** button to clear and revive the limit time, download quota and upload quota.

**LIMITAION QUOTA SETTINGS**

**Enable Budget Quota :**  Disable  Enable

**Select interface :** WAN1 ▾

**Enable current interface control :**

**Limit time(days) :**

**Start router time :** 01/01/1970 22:21:18

**Enable download quota :**

**Download quota(Max,MB) :**

**Enable upload quota :**

**Upload quota(Max,MB) :**

In this section, a list of budget quota will be displayed.

Select the **Remove Selected** option and click the **Remove Selected** button to remove the specific entry.

Click the **Refresh** button to refresh the budget quota data.

**TRAFFIC INFORMATION**

Enable	Interface	Limit time	Start Time	Enable Down	Down Quota	Enable Up	Up Quota	Remove	Edit
Active	WAN1	22	01/01/1970 22:39:53	Enabled	0.00 (2222.00)	Enabled	0.00 (444.00)	<input type="checkbox"/>	<input type="radio"/>

## Maintenance Category

The **Maintenance** category is designed to assist the user with maintenance configurations for this product.

The following pages can be found in the **Maintenance** category:

- [Administrator](#) – On this page the user can configure the login username, password and captcha for the web user interface of this product
- [Access Control](#) – On this page the user can configure access control for WAN and LAN interface of this product.
- [System Settings](#) – On this page the user can perform maintenance concerning the System. Services available for configuration are **Backup and Restore Settings, Restore to Factory Default Settings, and a Save and System Reboot.**
- [Firmware Update](#) – On this page, the user can update the running firmware for this product.
- [Diagnostics](#) – On this page, the user can run a diagnostics test that includes testing the Ethernet, Wireless, ATM OAM F4/F5 and Internet Connectivity of this product.
- [System Log](#) – On this page, the user can **View** and **Configure** the **System Log** used by this product.

The screenshot displays the D-Link web management interface for the DSL-2870B. The top navigation bar includes 'SETUP', 'ADVANCED', 'MAINTENANCE' (selected), 'STATUS', and 'HELP'. The left sidebar shows a menu with 'Administration' selected, along with 'Access Control', 'System Settings', 'Firmware Update', 'Diagnostics', and 'System Log'. Below the menu, there are 'Logout' and 'Reboot' buttons, and an 'Internet Offline' indicator.

The main content area is titled 'ADMINISTRATOR' and contains the following sections:

- ADMINISTRATOR**: A message stating, 'Here you can change the password for the administrator. The username (*admin*) can not be changed.'
- ADMINISTRATOR SETTINGS**: Fields for 'Username' (set to 'admin'), 'Password', and 'Confirm Password', each with a masked input field.
- GRAPHIC LOG-IN AUTHENTICATION (CAPTCHA)**: A section with the heading 'To enhance your router login security.' and an 'Enable Captcha' checkbox, which is currently unchecked.

A red note at the bottom states: 'Note: Setting changes may require a reboot to take effect.' An 'Apply' button is located at the bottom right of the main content area.

On the right side of the interface, there is a 'Helpful Hints...' section with text explaining that the page allows for password modification and that changing the password from the factory default is recommended for security. It also includes a 'More...' link.



## Administrator

To access the **Administrator** page, click on the **Maintenance** menu link, at the top, and then click on the **Administrator** menu link, on the left.

On this page the user can configure the login username, password and graphic login authentication for the web user interface of this product

The screenshot displays the D-Link web management interface. At the top, the D-Link logo is visible. Below it, a navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE (which is selected), STATUS, and HELP. On the left side, a sidebar menu lists various system functions: Administration, Access Control, System Settings, Firmware Update, Diagnostics, System Log, Internet Offline, Logout, and Reboot. The main content area is titled 'ADMINISTRATOR' and contains the following sections:

- ADMINISTRATOR**: A header section with an orange background.
- ADMINISTRATOR SETTINGS**: A section where the administrator password can be changed. It includes a text box for the password, a dropdown menu for the username (set to 'admin'), and a 'Confirm Password' field. A note states: 'Here you can change the password for the administrator. The username (admin) can not be changed.'
- GRAPHIC LOG-IN AUTHENTICATION (CAPTCHA)**: A section with the heading 'To enhance your router login security.' and an 'Enable Captcha' checkbox.
- Note**: A red text note indicating that 'Setting changes may require a reboot to take effect.'
- Apply**: A button at the bottom of the settings section.

On the right side of the interface, there is a 'Helpful Hints..' section with text explaining that the page allows for password modification and provides security recommendations. A 'More...' link is also present.

In this section, we can configure the access control account information.

**Username:** Specify the username for this router here.

**Old Password:** Enter the old login password for this router here.

**New Password:** Enter the new login password for this router here.

**Confirm Password:** Enter the new login password for this router here again.

**Enable Captcha:** Enable or disable the graphic login authentication for this router here.

Click the **Apply** button to accept the changes made

ADMINISTRATOR SETTINGS	
Username :	admin ▼
Password :	.....
Confirm Password :	.....

GRAPHIC LOG-IN AUTHENTICATION (CAPTCHA)	
To enhance your router login security.	
Enable Captcha :	<input type="checkbox"/>

**Note:** Setting changes may require a reboot to take effect.

Apply

## Access Control

To access the **Access Control** page, click on the **Maintenance** menu link, at the top, and then click on the **Access Control** menu link, on the left.

On this page the user can configure access control for WAN and LAN interface of this product.

The screenshot displays the D-Link web management interface for the DSL-2870B. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar shows a menu with options like Administration, Access Control, System Settings, Firmware Update, Diagnostics, and System Log. The main content area is titled 'ACCESS CONTROL' and contains the following sections:

- ACCESS CONTROL**: A message stating, "You can control the device Dualband Wireless N750 Modem Router special protocols from LAN and WAN at this page. The http for lan can not be changed."
- ACCESS CONTROL TYPE**: Radio buttons for IPv4 (selected) and IPv6.
- ACCESS CONTROL SETTINGS**:
  - Access From**: Radio buttons for WAN (selected) and LAN.
  - Access Rules**: Radio buttons for Disable and Enable (selected).
  - IP Address**: A text input field containing 0.0.0.0.
  - HTTP**:  Port: 8000
  - HTTPS**:  Port: 443
  - TELNET**:  Port: 23
  - SSH**:  Port: 22
  - FTP**:  Port: 21
  - TFTP**:  Port: 69
  - SNMP**:
  - PING**:

A red note at the bottom states: "Note: Setting changes may require a reboot to take effect." An 'Apply' button is located at the bottom right of the settings section.

In this section, we can configure the access control account information.

**Access Control Type:** Specify the access control type is IPv4 or IPv6 for this router here.

**Access From:** Specify the access interface for this router here.

**Access Rules:** Enable or disable the access rules for this router here.

**IP Address:** Enter the IP address for this router here, it specify which IP address can access the router.

**Access Control Services:** Specify the access services for this router here, it includes services: **HTTP**, **HTTPS**, **TELNET**, **SSH**, **FTP**, **TFTP**, **SNMP** and **PING**.

Click the **Apply** button to accept the changes made.

### ACCESS CONTROL TYPE

IPv4  IPv6

### ACCESS CONTROL SETTINGS

**Access From :**  WAN  LAN

**Access Rules :**  Disable  Enable

**IP Address :**

<b>HTTP :</b>	<input checked="" type="checkbox"/>	Port :	<input type="text" value="8000"/>
<b>HTTPS :</b>	<input checked="" type="checkbox"/>	Port :	<input type="text" value="443"/>
<b>TELNET :</b>	<input checked="" type="checkbox"/>	Port :	<input type="text" value="23"/>
<b>SSH :</b>	<input checked="" type="checkbox"/>	Port :	<input type="text" value="22"/>
<b>FTP :</b>	<input checked="" type="checkbox"/>	Port :	<input type="text" value="21"/>
<b>TFTP :</b>	<input checked="" type="checkbox"/>	Port :	<input type="text" value="69"/>
<b>SNMP :</b>	<input checked="" type="checkbox"/>		
<b>PING :</b>	<input checked="" type="checkbox"/>		

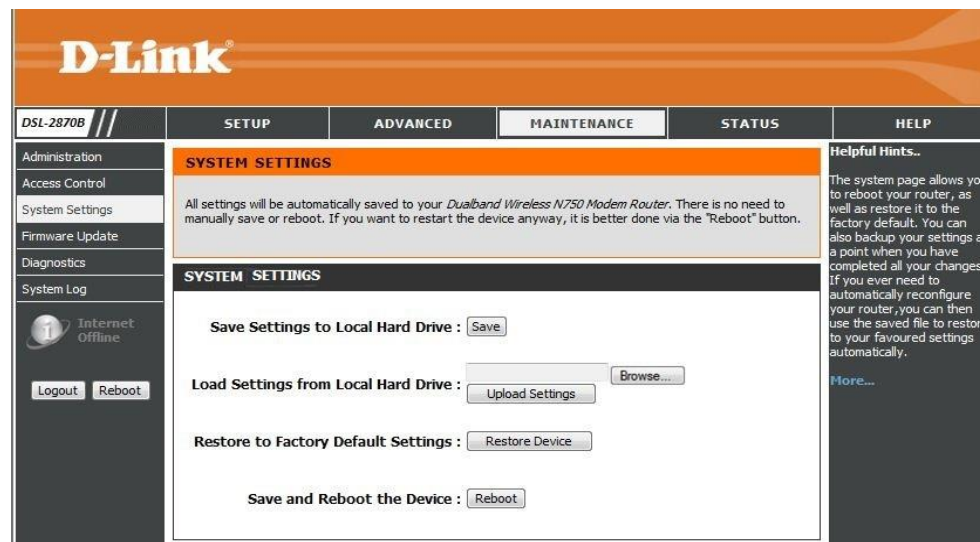
**Note:** Setting changes may require a reboot to take effect.

Apply

## System Settings

To access the **Device Info** page, click on the **Status** menu link, at the top, and then click on the **Device Info** menu link, on the left.

On this page, the user can view information regarding the System, WAN Connectivity, and LAN Connectivity.



In this section we can initiate the configuration backup, restore, restore to factory default setting, save, and reboot the device feature.

**Backup Settings:** Once you have configured the router to your satisfaction, it is a good idea to back up the configuration file to your computer. To save the current configuration settings to your computer, click the **Save** button of **Save Settings to Local Hard Driver**. You will be prompted to select a location on your computer to put the file. The file type is *bin* and may be named anything you wish.

**Restore Settings:** To load a previously saved configuration file, click the **Browse** button of **Load Settings from Local Hard Driver** and locate the file on your computer. Click the **Upload Settings** button to load the settings from your local hard drive. Confirm that you want to load the file when prompted. The router will reboot and begin operating with the configuration settings that have just been loaded

**Restore to Factory Default Settings:** in this section, we can perform a factory reset on this router. To reset the router to its factory default settings, click the **Restore**



**Device** button of **Restore to Factory Default Settings**. You will be prompted to confirm your decision to reset the router. The router will reboot with the factory default settings.

**Save and Reboot the Device:** in this section, we can reboot the router. Click the **Reboot** button to initiate the reboot procedure.

## Firmware Update

To access the **Firmware Update** page, click on the **Maintenance** menu link, at the top, and then click on the **Firmware Update** menu link, on the left.

On this page, the user can update the running firmware for this product. From time to time, a software update will be available for this product. Keep an eye on the D-Link website for possible software updates that might be available in the future.

The screenshot shows the D-Link web interface for the DSL-2870B. The top navigation bar includes 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar contains a menu with 'Administration', 'Access Control', 'System Settings', 'Firmware Update', 'Diagnostics', and 'System Log'. Below the menu are 'Logout' and 'Reboot' buttons. The main content area is titled 'FIRMWARE UPGRADE' and contains three steps: Step 1: Obtain an updated software image file from your ISP. Step 2: Enter the path to the image file location in the box below or click the "Browse" button to locate the image file. Step 3: Click the "Update" button once to upload the new image file. A note states: 'NOTE: The update process takes about 2 minutes to complete, and your Router will reboot.' Below the steps is a 'FIRMWARE INFORMATION' section showing 'Current Firmware Version : 2.00.00' and 'Firmware Date : 03082013'. At the bottom is a 'FIRMWARE UPDATE' section with a file input field, a 'Browse...' button, and an 'Update' button. On the right side, there is a 'Helpful Hints..' section with text about firmware updates and a 'More...' link.

In this section, we can view the current firmware information for the device.

This is a close-up screenshot of the 'FIRMWARE INFORMATION' section from the web interface. It displays the following text: 'Current Firmware Version : 2.00.00' and 'Firmware Date : 03082013'.

In this section, we can load the latest firmware for the device. Note that the device configuration settings may return to the factory default settings.

To upgrade the firmware, type in the name and path of the file in the **Software File Name** field or click on the **Browse** button to search for the file. Click the **Update** button to begin copying the file. The file will load and restart the router automatically.



The screenshot shows a web interface titled "FIRMWARE UPDATE". It contains a text input field for the file name and path, a "Browse..." button to the right of the input field, and an "Update" button centered below the input field.



## Diagnostics

To access the **Diagnostics** page, click on the **Maintenance** menu link, at the top, and then click on the **Diagnostics** menu link, on the left.

On this page, the user can run a diagnostics test that includes testing the Ethernet, Wireless, ATM OAM F4/F5 and Internet Connectivity of this product.

The screenshot shows the D-Link DSL-2870B web interface. The top navigation bar includes 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar menu includes 'Administration', 'Access Control', 'System Settings', 'Firmware Update', 'Diagnostics', and 'System Log'. The main content area is titled 'TOOL TEST' and contains a 'DIAGNOSTIC TEST' section. The diagnostic test results are displayed in a table format.

Interface : WAN1		Test
<b>Testing Circuit for LAN Connection</b>		
Testing Ethernet LAN Physical Port 1 Link State:		Up
Testing Ethernet LAN Physical Port 2 Link State:		Down
Testing Ethernet LAN Physical Port 3 Link State:		Down
Testing Ethernet LAN Physical Port 4 Link State:		Down
Testing Wireless 2.4G Main SSID State:		Up
Testing Wireless 5G Main SSID State:		Up
<b>Testing Circuit for Network Connection</b>		
Testing ATM OAM f5 segment ping:		Fail
Testing ATM OAM f5 end to end ping:		Fail
Testing ATM OAM f4 segment ping:		Fail
Testing ATM OAM f4 end to end ping:		Fail
<b>Testing Internet Connectivity</b>		
Ping Primary Domain Names Server:		Fail
Ping default gateway		Fail

In this section, diagnostic tests are performed to test the connection to the **Local Network** interface and **DSL Service Provider**. This test will include testing the **Ethernet, Wireless** connections, **ATM OAM F4/F5**, and **Internet Connectivity** of this router.

**DIAGNOSTIC TEST**

Interface : WAN1

Testing Circuit for LAN Connection	
Testing Ethernet LAN Physical Port 1 Link State:	Up
Testing Ethernet LAN Physical Port 2 Link State:	Down
Testing Ethernet LAN Physical Port 3 Link State:	Down
Testing Ethernet LAN Physical Port 4 Link State:	Down
Testing Wireless 2.4G Main SSID State:	Up
Testing Wireless 5G Main SSID State:	Up
Testing Circuit for Network Connection	
Testing ATM OAM f5 segment ping:	Fail
Testing ATM OAM f5 end to end ping:	Fail
Testing ATM OAM f4 segment ping:	Fail
Testing ATM OAM f4 end to end ping:	Fail
Testing Internet Connectivity	
Ping Primary Domain Names Server:	Fail
Ping default gateway	Fail

## System Log

To access the **System Log** page, click on the **Maintenance** menu link, at the top, and then click on the **System Log** menu link, on the left.

On this page, the user can View and Configure the System Log used by this product.

**D-Link**

DSL-2870B // SETUP ADVANCED MAINTENANCE STATUS HELP

Administration  
Access Control  
System Settings  
Firmware Update  
Diagnostics  
System Log  
Internet Offline  
Logout Reboot

### SYSTEM LOG

The system Log allows you to configure local and logging, and to view the logs that have been created.

#### SYSLOG STATUS

Disabled  Enabled

#### SAVE LOG FILE

Save Log File to Local Hard Drive :

#### LOG LEVEL

Log Level :

#### REMOTE LOG SETTING

Log Enable :   
Remote Log Server IP :

**Note:** Setting changes may require a reboot to take effect.

**Helpful Hints...**  
This page allows you to enable, configure and view your router system log. The system log will keep a record of your router activity. Depending on the amount of detail you include in the log, your router can only keep a limited number of log entries due to router memory constraints. If you have an external SYSLOG server, you may choose to configure external logging and all log entries will be sent to your remote server. You can set the Log Level and Display Level to match your needs, with Emergency as the highest level and Debugging as the lowest.  
[More...](#)

In this section, we can enable or disable the **System Log** Status for this router.

#### SYSLOG STATUS

Disabled  Enabled

In this section, we can save the **System Log** file to the computer for this router.

#### SAVE LOG FILE

Save Log File to Local Hard Drive :

In this section we can select the System Log level option here. Options to choose from are Emergency, Alert, Critical, Error, Warning, Notice, Information, and Debug.



**LOG LEVEL**

Log Level : Notice

In this section we can configure the Remote System Log Server for this router.

**Log Enable:** Specify the Remote log state here. Options to choose from are **Disable** and **Enable**.

**Remote Log Server IP:** Enter IPv4 or IPv6 IP address for the remote System log server.



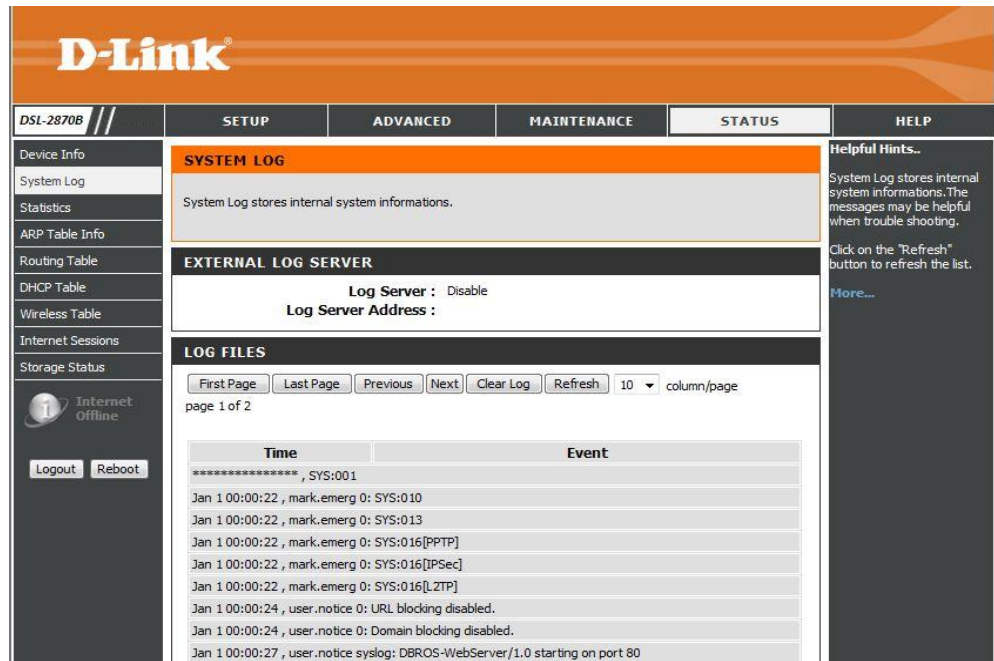
**REMOTE LOG SETTING**

Log Enable :

Remote Log Server IP : IPv4 192.168.1.222

Click the Apply/Save button to accept the changes made.

After clicking the View Log button, the following page is available. Please refer to System Log of Status section



**D-Link**

DSL-2870B // SETUP ADVANCED MAINTENANCE STATUS HELP

**SYSTEM LOG**

System Log stores internal system informations.

**EXTERNAL LOG SERVER**

Log Server : Disable  
Log Server Address :

**LOG FILES**

First Page Last Page Previous Next Clear Log Refresh 10 column/page  
page 1 of 2

Time	Event
*****	SYS:001
Jan 1 00:00:22	, mark.emerg 0: SYS:010
Jan 1 00:00:22	, mark.emerg 0: SYS:013
Jan 1 00:00:22	, mark.emerg 0: SYS:016[PPTP]
Jan 1 00:00:22	, mark.emerg 0: SYS:016[IPSec]
Jan 1 00:00:22	, mark.emerg 0: SYS:016[L2TP]
Jan 1 00:00:24	, user.notice 0: URL blocking disabled.
Jan 1 00:00:24	, user.notice 0: Domain blocking disabled.
Jan 1 00:00:27	, user.notice syslog: DBROS-WebServer/1.0 starting on port 80

**Helpful Hints..**

System Log stores internal system informations. The messages may be helpful when trouble shooting.

Click on the "Refresh" button to refresh the list.

[More...](#)

## Status Category

The **Status** category is designed to assist the user with information display pages, concerning the configuration and behavior of this product.

The following pages can be found in the **Status** category:

- [Device Info](#) – On this page the user can view information regarding the System and Internet Connectivity.
- [System Log](#) – On this page the user can view System Log information.
- [Statistics](#) – On this page the user can view statistical information about the LAN, WAN, xTM, and xDSL interfaces.
- [ARP Table info](#) – On this page the user can view the mapped IP address to its corresponding MAC address and interface name where packets are forwarded.
- [Routing Table](#) – On this page the user can view information about routes used by this product.
- [DHCP Table](#) – On this page the user can view a list of **DHCP clients** that are currently connected to this product.
- [Wireless Table](#) – On this page the user can view authenticated wireless stations and their status.
- [Internet Sessions](#) – On this page the user can view full details of active internet sessions to your router.
- [Storage Service](#) – On this page, the user can view the amount of storage space available

The screenshot displays the D-Link web interface for the DSL-2870B. The main navigation bar includes 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'STATUS' page is selected, showing a sidebar with links to 'Device Info', 'System Log', 'Statistics', 'ARP Table Info', 'Routing Table', 'DHCP Table', 'Wireless Table', 'Internet Sessions', and 'Storage Status'. The main content area is divided into three sections: 'DEVICE', 'GENERAL', and 'INTERNET STATUS'. The 'DEVICE' section provides a brief overview of the status page. The 'GENERAL' section shows the current time, ADSL firmware version (A2pv6F037b.d24a), and the firmware version (2.00.00). The 'INTERNET STATUS' section shows the connection type (WAN1), status (Disconnected), and various IP addresses and gateways for both IPv4 and IPv6.

Connection	Status
WAN1	Disconnected

**GENERAL**

Current Time : 01/01/1970 03:38:57  
 ADSL Firmware Version : A2pv6F037b.d24a  
 Firmware Version : 2.00.00

**INTERNET STATUS**

Connection : WAN1  
 Status : Disconnected  
 Connection Type : N/A  
 IP Address : 0.0.0.0  
 Subnet Mask : 0.0.0.0  
 Default Gateway : 0.0.0.0  
 DNS Server : 0.0.0.0

IPv6 Connection Type :  
 IPv6 Network Status :  
 WAN IPv6 Address : /  
 IPv6 Default Gateway : /  
 LAN IPv6 Address : /  
 LAN IPv6 Link-Local Address :

## Device Info

To access the **Device Info** page, click on the **Status** menu link, at the top, and then click on the **Device Info** menu link, on the left.

On this page, the user can view information regarding the System, WAN Connectivity, LAN Connectivity and Wireless Connectivity.

The screenshot shows the D-Link web interface for the DSL-2870B. The top navigation bar includes links for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar contains a menu with options like Device Info, System Log, Statistics, ARP Table Info, Routing Table, DHCP Table, Wireless Table, Internet Sessions, and Storage Status. The main content area is titled 'DEVICE' and contains a description of the page's purpose. Below this, there are three sections: 'GENERAL' showing system information (Current Time: 01/01/1970 03:38:57, ADSL Firmware Version: A2pv6F037b.d24a, Firmware Version: 2.00.00), 'INTERNET STATUS' showing connection details for WAN1 (Status: Disconnected, Connection Type: N/A, IP Address: 0.0.0.0, Subnet Mask: 0.0.0.0, Default Gateway: 0.0.0.0, DNS Server: 0.0.0.0, IPv6 Network Status: /, WAN IPv6 Address: /, IPv6 Default Gateway: /, LAN IPv6 Address: /, LAN IPv6 Link-Local Address: /), and 'Helpful Hints..' with a link to 'More...'. The bottom left of the interface shows 'Internet Offline' status and 'Logout' and 'Reboot' buttons.

In this section, we can view **System General Information**.

This is a close-up of the 'GENERAL' section from the screenshot above. It displays the following information:

- Current Time :** 01/01/1970 03:38:57
- ADSL Firmware Version :** A2pv6F037b.d24a
- Firmware Version :** 2.00.00

In this section, we can view **Internet Information**.

INTERNET STATUS	
Connection :	WAN1 ▾
Status :	Disconnected
Connection Type :	N/A
IP Address :	0.0.0.0
Subnet Mask :	0.0.0.0
Default Gateway :	0.0.0.0
DNS Server :	0.0.0.0
IPv6 Connection Type :	
IPv6 Network Status :	
WAN IPv6 Address :	/
IPv6 Default Gateway :	
LAN IPv6 Address :	/
LAN IPv6 Link-Local Address :	
IPv6 Primary DNS Server :	
IPv6 Secondary DNS Server :	

In this section, we can view **Wireless 2.4G Information**.

WIRELESS 2.4G LAN	
Wireless Status :	Enable
Networks Name (SSID) :	dlink-2870B-z
MAC Address :	00:15:E9:C4:A9:7F
Channel :	5
Security Type :	None

In this section we can view **Wireless 2.5G Information**.

WIRELESS 5G LAN	
Wireless Status :	Enable
Networks Name (SSID) :	dlink-2870B5G-z
MAC Address :	00:15:E9:C4:A9:80
Channel :	54
Security Type :	None

In this section, we can view **LAN Information**.

LAN	
<b>MAC Address :</b>	00:15:e9:c4:a9:7e
<b>IP Address :</b>	192.168.1.1
<b>Subnet Mask :</b>	255.255.255.0
<b>DHCP Server :</b>	Enabled



## System Log

To access the **System Log** page, click on the **Status** menu link, at the top, and then click on the **System Log** menu link, on the left.

On this page, the user can view System Log information.

The screenshot shows the D-Link web interface for the DSL-2870B. The top navigation bar includes links for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar contains various system status links, with 'System Log' selected. The main content area is divided into three sections: 'SYSTEM LOG' with a description, 'EXTERNAL LOG SERVER' showing 'Log Server : Disable' and 'Log Server Address :', and 'LOG FILES' with a table of log entries. The table has columns for 'Time' and 'Event'. The log entries include system boot messages and user notices.

Time	Event
*****, SYS:001	
Jan 1 00:00:22 , mark.emerg 0: SYS:010	
Jan 1 00:00:22 , mark.emerg 0: SYS:013	
Jan 1 00:00:22 , mark.emerg 0: SYS:016[PPTP]	
Jan 1 00:00:22 , mark.emerg 0: SYS:016[IPSec]	
Jan 1 00:00:22 , mark.emerg 0: SYS:016[L2TP]	
Jan 1 00:00:24 , user.notice 0: URL blocking disabled.	
Jan 1 00:00:24 , user.notice 0: Domain blocking disabled.	
Jan 1 00:00:27 , user.notice syslog: DBROS-WebServer/1.0 starting on port 80	

In this section, we can view external log server state and IP address.

This close-up screenshot shows the 'EXTERNAL LOG SERVER' configuration section. It displays 'Log Server : Enable' and 'Log Server Address : 192.168.0.146'.

In this section, we can view log information.

**First Page:** Click the button, the log page will return to first page of the log information.

**Last Page:** Click the button, the log page will return to last page of the log information.

**Previous:** Click the button, the log page will return to previous page of the log information.

**Next:** Click the button, the log page will return to next page of the log information.

**Clear Log:** Click the button, it will clear all log information for this router.

**Refresh:** Click the button; it will refresh the log information page.

### LOG FILES

First Page Last Page Previous Next Clear Log Refresh 10 column/page

page 1 of 2

Time	Event
*****	, SYS:001
Jan 1 00:00:22	, mark.emerg 0: SYS:010
Jan 1 00:00:22	, mark.emerg 0: SYS:013
Jan 1 00:00:22	, mark.emerg 0: SYS:016[PPTP]
Jan 1 00:00:22	, mark.emerg 0: SYS:016[IPSec]
Jan 1 00:00:22	, mark.emerg 0: SYS:016[L2TP]
Jan 1 00:00:24	, user.notice 0: URL blocking disabled.
Jan 1 00:00:24	, user.notice 0: Domain blocking disabled.
Jan 1 00:00:27	, user.notice syslog: DBROS-WebServer/1.0 starting on port 80
Jan 1 00:00:27	, user.warn syslog: initgroups - No such file or directory

## Statistics

To access the **Statistics** page, click on the **Status** menu link, at the top, and then click on the **Statistics** menu link, on the left.

On this page, the user can view statistical information about various interfaces used by this product.

Information available for observations are includes LAN, WAN and xDSL.

The screenshot shows the D-Link web interface for the DSL-2870B. The top navigation bar includes links for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar contains a menu with options like Device Info, System Log, Statistics, ARP Table Info, Routing Table, DHCP Table, Wireless Table, Internet Sessions, and Storage Status. The main content area is titled 'TRAFFIC STATISTICS' and includes a 'Refresh' button. Below this is a 'STATISTICS' table showing data for various interfaces. At the bottom, there is an 'ADSL STATUS' section.

Interface	Transmit				Receive			
	Bytes	Pkts	Errs	Drops	Bytes	Pkts	Errs	Drops
LAN1	423172	335	0	0	24492	244	0	0
Port1	0	334	0	0	0	328	0	0
Port2	0	0	0	0	0	0	0	0
Port3	0	0	0	0	0	0	0	0
Port4	0	0	0	0	0	0	0	0
WAN: WAN1	0	0	0	0	0	0	0	0
Wireless2.4G: dlink-2870B-z	1328	9	0	0	0	0	0	0
Wireless5G: dlink-2870B5G-z	0	0	0	0	0	0	0	0

ADSL STATUS	
Line State	Down
Modulation	Unknown
Annex Mode	AnnexA

In this section, we can view **Local Network**, **Wireless** and **WAN Statistics**.

**WAN:** Select WAN interface to view WAN Statistics.

STATISTICS								
Interface	Transmit				Receive			
	Bytes	Pkts	Errs	Drops	Bytes	Pkts	Errs	Drops
LAN1	1024638	983	0	0	537277	3898	0	0
Port1	0	982	0	0	0	555	0	0
Port2	0	0	0	0	0	0	0	0
Port3	0	0	0	0	0	0	0	0
Port4	0	0	0	0	0	0	0	0
WAN: WAN1 ▾	0	0	0	0	0	0	0	0
Wireless2.4G: dlink-2870B-sun-z	25108	138	0	0	0	0	0	0
Wireless5G: dlink-2870B5G-z	21867	114	0	0	0	0	0	0

In this section, we can view **xDSL Line Status** and **Statistics**.

ADSL STATUS		
Line State	Down	
Modulation	Unknown	
Annex Mode	AnnexA	
	Downstream	Upstream
Data Rate	0	0
Maximum Attainable Data Rate(ATTNDR)	0	0
Interleaver Depth	0	0
Line Attenuation(LATN)	0	0
Signal Attenuation(SATN)		
Signal-to-Noise Ratio Margin(SNRM)	0	0
Actual Aggregate Transmit Power(ACATP)	0	0
	Near End	Far End
Superframe	0	
LOS Failure	0	0
LOF Failure	0	0
LPR Failure	0	0
NCD Failure	0	0
LCD Failure	0	0
CRC	0	0
RS Correction	0	0
Forward Error Correction Seconds(FECS-L)	0	0
Errored Second(ES-L)	0	0
Severely Errored Seconds(SES-L)	0	0
Loss of Signal Seconds(LOSS-L)	0	0
Unavailable Seconds(UAS-L)	0	0
HEC Error	0	0

## ARP Table Info

To access the **ARP Table Info** page, click on the **Status** menu link, at the top, and then click on the **ARP Table info** menu link, on the left.

On this page the user can view the mapped IP address to its corresponding MAC address and interface name where packets are forwarded.

**D-Link**

DSL-2870B // SETUP ADVANCED MAINTENANCE STATUS HELP

Device Info  
System Log  
Statistics  
ARP Table Info  
Routing Table  
DHCP Table  
Wireless Table  
Internet Sessions  
Storage Status

Internet Offline  
Logout Reboot

**ARP STATUS**

The ARP Table shows the mapped IP address to its corresponding MAC address and interface name where packets are forwarded

Refresh

**ARP TABLE LISTS**

IP Address	HW address	Device
192.168.1.22	00:24:e8:83:30:18	br0
192.168.1.2	00:16:e3:e9:c0:cb	br0

**Helpful Hints..**  
ARP table shows the pairing of Physical address and IP address of nodes.  
[More...](#)

In this section, we can view ARP Table information.

ARP TABLE LISTS		
IP Address	HW address	Device
192.168.1.22	00:24:e8:83:30:18	br0
192.168.1.2	00:16:e3:e9:c0:cb	br0

## Routing Table

To access the **Routing Table** page, click on the **Status** menu link, at the top, and then click on the **Routing Table** menu link, on the left.

On this page the user can view information about routes used by this product.

The screenshot shows the D-Link web interface for the DSL-2870B. The top navigation bar has tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar contains a menu with options like Device Info, System Log, Statistics, ARP Table Info, Routing Table (selected), DHCP Table, Wireless Table, Internet Sessions, and Storage Status. The main content area is titled 'ROUTING TABLES' and contains a 'Refresh' button and a 'ROUTING TABLE LISTS' table. The table has columns for Destination, Gateway, Genmask, Flags, Metric, Ref, Use, and Interface. A single row is visible with the following values: 192.168.1.0, 0.0.0.0, 255.255.255.0, U, 0, 0, 0, br0. A 'Helpful Hints..' section on the right explains that routing tables show the path a host's packet will be routed through.

In this section, we can view **Route Information**.

The information available in the **Flag** field can be translated to the following:

**U** means Up. **!** Means Reject. **G** means Gateway. **H** means Host. **R** means Reinstall.

**D** means Dynamic or Redirect. **M** means Modified or also Redirect.

ROUTING TABLE LISTS							
Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Interface
192.168.1.0	0.0.0.0	255.255.255.0	U	0	0	0	br0

## DHCP Table

To access the **DHCP Table** page, click on the **Status** menu link, at the top, and then click on the **DHCP Table** menu link, on the left.

On the page, the user can view a list of DHCP clients that are currently connected to this product.

The screenshot shows the D-Link web interface for the DSL-2870B. The top navigation bar includes links for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar contains various system status and configuration links. The main content area is titled "DHCP CLIENTS" and includes a "Refresh" button. Below this, a table titled "EXISTING DHCP CLIENT" displays the following data:

Host Name	IP address	MAC Address	Lease Time	Interface
DLINK-JackSunNB	192.168.1.2	00:16:E3:E9:C0:CB		WLAN

In this section, we can view a list of **DHCP Clients**.

EXISTING DHCP CLIENT				
Host Name	IP address	MAC Address	Lease Time	Interface



## Wireless Table

To access the Error! Not a valid bookmark self-reference. **Table** page, click on the **Status** menu link, at the top, and then click on the **Wireless Table** menu link, on the left.

On this page, the user can view authenticated wireless stations and their status.

The screenshot shows the D-Link web interface for the DSL-2870B. The top navigation bar includes 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar menu includes 'Device Info', 'System Log', 'Statistics', 'ARP Table Info', 'Routing Table', 'DHCP Table', 'Wireless Table', 'Internet Sessions', 'Storage Status', 'Internet Offline', 'Logout', and 'Reboot'. The main content area is titled 'WIRELESS -- STATION INFO' and contains a 'Refresh' button. Below this are two tables: 'WIRELESS 2.4G TABLE LIST' and 'WIRELESS 5G TABLE LIST'. The 2.4G table has one entry:

MAC	SSID	Interface
00:16:E3:E9:C0:CB	dlink-2870B-sun-z	wl0

In this section, we can view Wireless 2.4G stations and their status.

WIRELESS 2.4G TABLE LIST		
MAC	SSID	Interface
00:16:E3:E9:C0:CB	dlink-2870B-sun-z	wl0

In this section, we can view Wireless 5G stations and their status.

WIRELESS 5G TABLE LIST		
MAC	SSID	Interface

## Internet Session

To access the **Internet Session** page, click on the **Status** menu link, at the top, and then click on the **Internet Session** menu link, on the left.

On this page, the user can view full details of active internet sessions to your router.

Local	Internet	Protocol	Timeout
192.168.1.22:58759	239.255.255.250:1900	udp	29
192.168.1.1:53654	239.255.0.1:9303	udp	28
192.168.1.1:1900	239.255.255.250:1900	udp	22

In this section, we can view internet session list.

Local	Internet	Protocol	Timeout
192.168.1.1:53654	239.255.0.1:9303	udp	28

## Storage Service

To access the **Storage Service** page, click on the **Status** menu link, at the top, and then click on the **Storage Service** menu link, on the left.

On this page, the user can configure services related to the Storage Services of this product.

The screenshot shows the D-Link Storage Service page. The top navigation bar includes the D-Link logo and tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar contains a menu with options like Device Info, System Log, Statistics, ARP Table Info, Routing Table, DHCP Table, Wireless Table, Internet Sessions, and Storage Status (which is highlighted). Below the menu, there is an 'Internet Offline' indicator and 'Logout' and 'Reboot' buttons. The main content area is titled 'STORAGE STATUS' and contains a 'Refresh' button. Below this is a section titled 'STORAGE TABLE LISTS' with a table header: Device, Filesystem, Size, Used, Available, Use%. On the right side, there is a 'Helpful Hints..' section with text explaining the storage status information and a 'More...' link.

In this page, we can view information about the USB storage device that is inserted into the USB port of this router.

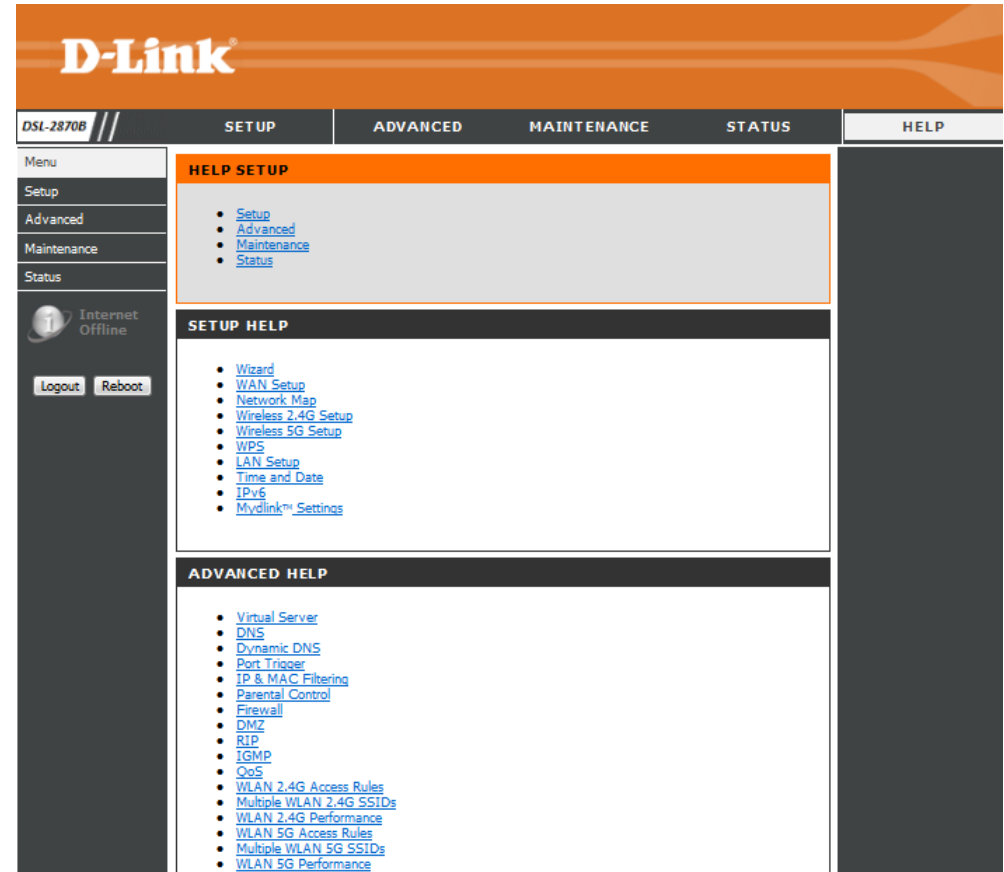
Device	Filesystem	Size	Used	Available	Use%
--------	------------	------	------	-----------	------

## Help Category

The **Help** category is designed to assist the user with helpful information about every topic found on the web user interface of this product.

The following pages can be found in the **Help** category:

- **Menu** – On this page, the user can navigate easily to any page throughout the menu structure to access help information.
- **Setup** – On this page, the user can read more about topics discussed in the Setup category.
- **Advanced** – On this page, the user can read more about topics discussed in the Advanced category.
- **Maintenance** – On this page, the user can read more about topics discussed in the Maintenance category.
- **Status** – On this page, the user can read more about topics discussed in the Status category.



# Knowledge Base

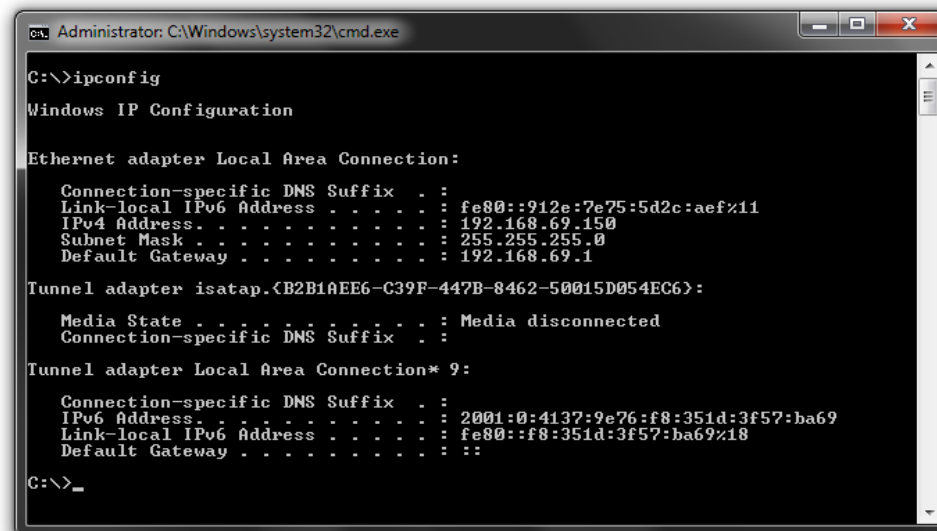
## Networking Basics

### Check your IP address

After you installed your new network or wireless adapter, by default, the TCP/IP settings should be set to obtain an IP address automatically from a DHCP server. By default the DHCP server option on your router is enabled.

To verify your IP address, please follow the steps below:

- Click on the Windows **Start** button and open the **Run** application.
- In the **Open** box type *cmd* and click **OK**.
- At the command prompt, type in the command *ipconfig* and press **Enter**. This will display the **IP address**, **Subnet Mask**, and the **Default Gateway** of your adapter. If the address is *0.0.0.0*, it means that your network adapter did not receive an IP address from the DHCP server. Check your adapter installation, security settings, and the settings on your router. Some firewall software programs may block a DHCP request on newly installed adapters.



```
Administrator: C:\Windows\system32\cmd.exe
C:\>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::912e:7e75:5d2c:aef%11
    IPv4 Address. . . . . : 192.168.69.150
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.69.1

Tunnel adapter isatap.{B2B1AEE6-C39F-447B-8462-50015D054EC6}:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : 

Tunnel adapter Local Area Connection* 9:

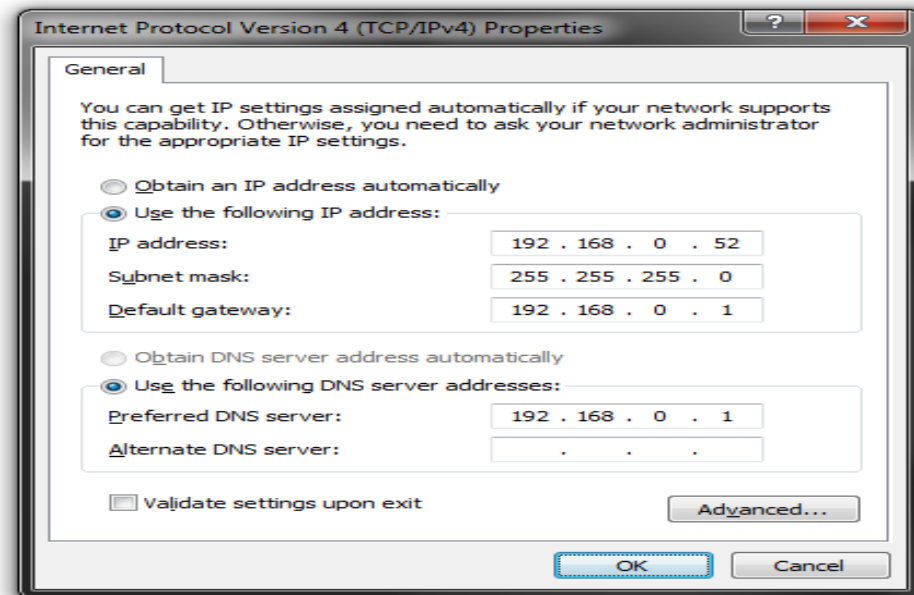
    Connection-specific DNS Suffix  . : 
    IPv6 Address. . . . . : 2001:0:4137:9e76:f8:351d:3f57:ba69
    Link-local IPv6 Address . . . . . : fe80::f8:351d:3f57:ba69%18
    Default Gateway . . . . . : ::

C:\>_
```

### **Statically Assign an IP address**

If you are not using a DHCP capable gateway/router, or you need to assign a static IP address, please follow the steps below:

- Click on the Windows **Start** button and navigate to the **Control Panel > Network and Sharing Center** and click on the **Change Adapter Settings** option on the left panel.
- Right-click on the **Local Area Connection**, which represents your network adapter, and select **Properties**.
- Select the **Internet Protocol Version 4 (TCP/IPv4)** option and click on the **Properties** button.
- Select **Use the following IP address** and enter an IP address that is on the same subnet as your router. For example: If your router is running on the IP address of **192.168.1.1**, use any IP address from **192.168.1.2** to **192.168.69.254**. Use the Subnet Mask of **255.255.255.0**. Set Default Gateway the same as the LAN IP address of your router. Set Preferred DNS server IP address the same as the LAN IP address of your router. The Secondary DNS is not needed at this stage.
- Click the **OK** button twice to return to the **Network Connections** window.



## Wireless Basics

Wireless products are based on industry standards to provide easy-to-use and compatible high-speed wireless connectivity within your home, business or public access wireless networks. Strictly adhering to the IEEE standard, the wireless family of products will allow you to securely access the data you want, when and where you want it. You will be able to enjoy the freedom that wireless networking delivers.

A wireless local area network (WLAN) is a cellular computer network that transmits and receives data with radio signals instead of wires. Wireless LANs are used increasingly in both home and office environments, and public areas such as airports, coffee shops and universities. Innovative ways to utilize WLAN technology are helping people to work and communicate more efficiently. Increased mobility and the absence of cabling and other fixed infrastructure have proven to be beneficial for many users.

Wireless users can use the same applications they use on a wired network. Wireless adapter cards used on laptop and desktop systems support the same protocols as Ethernet adapter cards.

Under many circumstances, it may be desirable for mobile network devices to link to a conventional Ethernet LAN in order to use servers, printers or an Internet connection supplied through the wired LAN. A Wireless Router is a device used to provide this link.

### **What is Wireless?**

Wireless or Wi-Fi technology is another way of connecting your computer to the network without using wires. Wi-Fi uses radio frequency to connect wirelessly, so you have the freedom to connect computers anywhere in your home or office network.

### **How does Wireless work?**

Wireless works similar to how cordless phone work, through radio signals to transmit data from one point A to point B. But wireless technology has restrictions as to how you can access the network. You must be within the wireless network range area to be able to connect your computer. There are two different types of wireless networks Wireless Local Area Network (WLAN), and Wireless Personal Area Network (WPAN).

### **Wireless Local Area Network (WLAN)**

In a wireless local area network, a device called an Access Point (AP) connects computers to the network. The access point has a small antenna attached to it, which allows it to transmit data back and forth over radio signals. With an indoor access point as seen in the picture, the signal can travel up to 300 feet. With an outdoor access point the signal can reach out up to 30 miles to serve places like manufacturing plants, industrial locations, college and high school campuses, airports, golf courses, and many other outdoor venues.

### **Wireless Personal Area Network (WPAN)**

Bluetooth is the industry standard wireless technology used for WPAN. Bluetooth devices in WPAN operate in a range up to 30 feet away. Compared to WLAN the speed and wireless operation range are both less than WLAN, but in return it doesn't use nearly as much power which makes it ideal for personal devices, such as mobile phones, PDAs, headphones, laptops, speakers, and other devices that operate on batteries.

## **Who uses wireless?**

Wireless technology has become so popular in recent years that almost everyone is using it, whether it's for home, office, business, we have a wireless solution for it.

### **Home**

- Gives everyone at home broadband access.
- Surf the web, check email, instant message, etc...
- Gets rid of the cables around the house.
- Simple and easy to use.

### **Small Office and Home Office**

- Stay on top of everything at home as you would at office.
- Remotely access your office network from home.
- Share Internet connection and printer with multiple computers.
- No need to dedicate office space.

## **Where is wireless used?**

Wireless technology is expanding everywhere not just at home or office. People like the freedom of mobility and it's becoming so popular that more and more public facilities now provide wireless access to attract people. The wireless connection in public places is usually called "hotspots".

Using a Wireless Cardbus Adapter with your laptop, you can access the hotspot to connect to Internet from remote locations like: Airports, Hotels, Coffee Shops, Libraries, Restaurants, and Convention Centers.

Wireless network is easy to setup, but if you're installing it for the first time it could be quite a task not knowing where to start. That's why we've put together a few setup steps and tips to help you through the process of setting up a wireless network.

## **Tips**

Here are a few things to keep in mind, when you install a wireless network.

### **Centralize your router or Access Point**

Make sure you place the router/access point in a centralized location within your network for the best performance. Try to place the router/access point as high as possible in the room, so the signal gets dispersed throughout your home. If you have a two-story home, you may need a repeater to boost the signal to extend the range.



### **Eliminate Interference**

Place home appliances such as cordless telephones, microwaves, and televisions as far away as possible from the router/access point. This would significantly reduce any interference that the appliances might cause since they operate on same frequency.

### **Security**

Don't let your next-door neighbors or intruders connect to your wireless network. Secure your wireless network by turning on the WPA or WEP security feature on the router. Refer to product manual for detail information on how to set it up.

## **Wireless Modes**

There are basically two modes of networking:

- **Infrastructure** – All wireless clients will connect to an access point or wireless router.
- **Ad-Hoc** – Directly connecting to another computer, for peer-to-peer communication, using wireless network adapters on each computer, such as two or more wireless network Cardbus adapters.

An Infrastructure network contains an Access Point or wireless router. All the wireless devices, or clients, will connect to the wireless router or access point.

An Ad-Hoc network contains only clients, such as laptops with wireless Cardbus adapters. All the adapters must be in Ad-Hoc mode to communicate.

## **Wireless Security**

This section will show you the different levels of security you can use to protect your data from intruders. The router offers wireless security options like WPA/WPA2 PSK/EAP.

### **What is WPA?**

WPA (Wi-Fi Protected Access) is a Wi-Fi standard that was designed to improve the security features of WEP (Wired Equivalent Privacy).

The 2 major improvements over WEP:

- Improved data encryption through the Temporal Key Integrity Protocol (TKIP). TKIP scrambles the keys using a hashing algorithm and, by adding an integrity-checking feature, ensures that the keys haven't been tampered with. WPA2 is based on 802.11i and uses Advanced Encryption Standard (AES) instead of TKIP.
- User authentication, which is generally missing in WEP, through the extensible authentication protocol (EAP). WEP regulates access to a wireless network based on a computer's hardware-specific MAC address, which is relatively simple to be sniffed out and stolen. EAP is built on a more secure public-key encryption system to ensure that only authorized network users can access the network.

WPA-PSK/WPA2-PSK uses a passphrase or key to authenticate your wireless connection. The key is an alpha-numeric password between 8 and 63 characters long. The password can include symbols (!?\*&\_) and spaces. This key must be the exact same key entered on your wireless router or access point.

WPA/WPA2 incorporates user authentication through the Extensible Authentication Protocol (EAP). EAP is built on a more secure public key encryption system to ensure that only authorized network users can access the network.

## Frequently Asked Questions

### **What can I do if my Router is not working correctly?**

There are a few quick steps you can take to try and resolve any issues:

- Check that all the cables are firmly connected at both ends.
- Check that all the corresponding LED indicators are on, especially the Power, DSL, and LAN LED indicators. For more information about LED indicators refer to the [Front Panel](#) on page 6.
- Ensure that the settings on the WAN Service page in the Web User Interface are the same as the settings that have been provided to you by your ISP. For more information refer to [WAN Se](#) on page 33.

### **Why can't I get an Internet connection?**

For ADSL ISP users, please contact your ISP to make sure the service has been enabled/connected by your ISP and that your ISP username and password are correct.

### **What can I do if I forgot my web UI login password?**

If you forgot your password, you must reset your router. Unfortunately this process will change all your settings back to the factory defaults.

To reset the router, locate the reset button (hole) on the rear panel of the unit. With the router powered on, use a paperclip to hold the button down for 10-15 seconds. Release the button and the router will go through its reboot process. Wait about 30 seconds to access the router. The default IP address is **192.168.1.1**. When logging in, the username is '**admin**' and the password is '**admin**'.

# Technical Specifications

## Hardware Specifications

- LAN Interface: Four 10/100/1000Mbps LAN ports
- DSL Interface: One RJ11 Internet port
- Wireless Interface (2.4Ghz): IEEE 802.11b/g/n
- Wireless Interface (5Ghz): IEEE 802.11a/n
- USB Interface: Complaint USB 2.0

## Operating Voltage

- Input: 100~240V ( $\pm 10\%$ ), 50~60Hz
- Output: DC12V, 1.5A

## Temperature

- Operating: 32°F~104°F (0°C~40°C)
- Non-Operating: -4°F~149°F (-20°C~65°C)

## Humidity

- Operating: 10%~90% non-condensing
- Non-Operating: 5%~95% non-condensing

## ADSL Standards

- ANSI T1.413 Issue 2
- ITU G.992.1 (G.dmt) Annex A
- ITU G.992.2 (G.lite) Annex A
- ITU G.994.1 (G.hs)

## ADSL2 Standards

- ITU G.992.3 (G.dmt.bis) Annex A
- ITU G.992.4 (G.lite.bis) Annex A

## ADSL2+ Standards

- ITU G.992.5 Annex A

## ADSL Data Transfer Rate

- G.dmt full rate downstream: up to 8 Mbps / upstream: up to 1 Mbps
- G.lite: ADSL downstream up to 1.5 Mbps / upstream up to 512 Kbps
- G.dmt.bis full rate downstream: up to 12 Mbps / upstream: up to 12 Mbps
- ADSL full rate downstream: up to 24 Mbps / upstream: up to 1 Mbps

## Wireless Frequency Range

- IEEE 802.11a: 5150 MHz~5350 MHz
- IEEE 802.11b: 2400 MHz~2497 MHz
- IEEE 802.11g: 2400 MHz~2497 MHz
- IEEE 802.11n: 2400 MHz~2497 MHz, 5150 MHz~5350 MHz

## Wireless Bandwidth Rate

- IEEE 802.11a: 54, 48, 36, 24, 18, 12, 9, and 6 Mbps
- IEEE 802.11b: 11, 5.5, 2, and 1 Mbps
- IEEE 802.11g: 54, 48, 36, 24, 18, 12, 9, and 6 Mbps
- IEEE 802.11an: 6.5 to 450 Mbps
- IEEE 802.11gn: 6.5 to 300 Mbps

## Wireless Channel Numbers

- IEEE 802.11a: Channels 36~64
- IEEE 802.11b: Channels 1~11 (USA), 1~13 (Europe), 1~14 (Japan)
- IEEE 802.11g: Channels 1~11 (USA), 1~13 (Europe), 1~14 (Japan)
- IEEE 802.11n: Channels 1~11 (USA), 1~13 (Europe), 1~14 (Japan), Channels 36~64

## Antenna Type

- Five Internal Antennas (Two 2.4 GHz Antennas, Three 5 GHz Antennas)

**Wireless Security**

- 64/128bit WEP, WPA/WPA2-Personal, WPA/WPA2-Enterprise, WPS (PIN & PBC)

**Dimensions & Weight**

- 213 x 173 x 52 mm (8.39 x 6.81 x 2.05 in)
- 405.52 grams (0.89 lbs)

**Certifications**

- FCC P68/P15B, CE, A-tick.