

# USER MANUAL

DSL-2750B

VERSION 2.01



**D-Link**<sup>®</sup>

**BROADBAND**

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# Package Contents

- DSL-2750B Wireless ADSL Router
- 2 non-detachable Antennas(MIMO 2x2)
- Power Adapter
- CD-ROM with Installation Wizard, User Manual, and Special Offers
- One twisted-pair telephone cable used for ADSL connection
- One straight-through Ethernet cable
- One Quick Installation Guide

**Note:** Using a power supply with a different voltage rating than the one included With the DSL-2750B will cause damage and void the warranty for this product.



# System Requirements

## 1. ADSL Internet service

Computer with:

- 200MHz Processor
- 64MB Memory
- CD-ROM Drive
- Ethernet Adapter with TCP/IP Protocol Installed
- Windows win7/vista/XP/2000z
- MAC OS
- Internet Explorer v6 or later, FireFox v1.5

## 2. D-Link Click's Connect Utility

Computer with:

- Windows win7/vista/XP/2000



# Introduction

## **HIGH-SPEED ADSL2/2+ INTERNET CONNECTION**

Latest ADSL2/2+ standards provide Internet transmission of up to 24Mbps downstream, 1Mbps upstream.

## **HIGH-PERFORMANCE WIRELESS**

Embedded 802.11n technology for high-speed wireless connection, complete compatibility with 802.11b/g wireless devices

## **TOTAL SECURITY**

Firewall protection from Internet attacks, user access control, WPA/WPA2 wireless security.

## **ULTIMATE INTERNET CONNECTION**

The DSL-2750B ADSL2+ router is a versatile, high-performance remote router for home and the small office. With integrated ADSL2/2+ supporting up to 24Mbps download speed, firewall protection, Quality of Service (QoS), 802.11n wireless LAN and 4 Ethernet switch ports, this router provides all the functions that a home or small office needs to establish a secure and high-speed remote link to the outside world.

## **ULTIMATE WIRELESS CONNECTION WITH MAXIMUM SECURITY**

This router provides maximize wireless performance by connecting this router to computer interfaces and stay connected from virtually anywhere at home and in the office. The router can be used with 802.11b/g/n wireless networks to enable significantly improved reception. It supports WPA/WPA2 and WEP for flexible user access security and data encryption methods.

## **FIREWALL PROTECTION & QoS**

Security features prevents unauthorized access to the home and office network, be it from the wireless devices or from the Internet. The router provides firewall security using Stateful Packet Inspection (SPI) and hacker attack logging for Denial of Service (DoS) attack protection. SPI inspects the contents of all incoming packet headers before deciding what packets are allowed to pass through. Router access control is provided with packet filtering based on port and source/destination MAC/IP addresses. For Quality of Service (QoS), the router supports multiple priority queues to enable a group of home or office users to experience the benefit of smooth network connection of inbound and outbound data without concern of traffic congestion. This QoS support allows users to enjoy high ADSL transmission for applications such as VoIP and streaming multimedia over the Internet.

\*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.

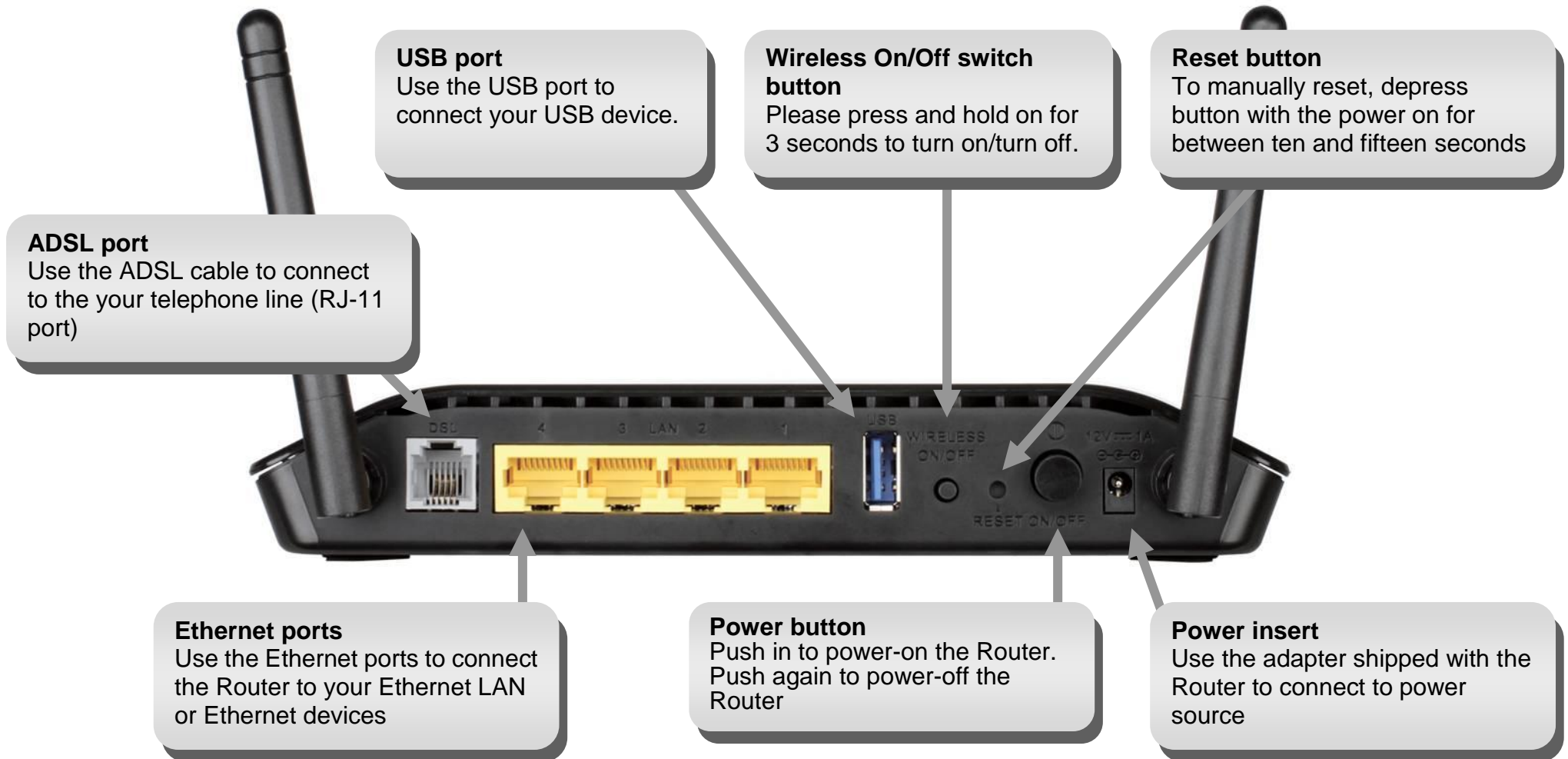
# Features

- **Faster Wireless Networking** - The DSL-2750B provides up to 300Mbps\* 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-2750B is still fully compatible with the IEEE 802.11b and g standards, so it can connect with existing 802.11b and g 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-2750B 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-2750B incorporates SNMP (Simple Network Management Protocol) support for web-based management and text-based network management via Telnet connection.
- **Easy Installation** - The DSL-2750B uses a web-based graphical user interface program for convenient management access and easy set up. Any common web browser software can be used to manage the Router.
- **USB Support**- The DSL-2750B provides USB port for easy sharing files and printers. The DSL-2750B supports USB storage device sharing files through SAMBA file server, FTP server, Web file server and in addition also supports sharing USB printers to network members. Besides sharing function, the DSL-2750B also supports connect to internet by USB 3G modem.
- **IPv6 Connection Support** – For IPv6 connection, the DSL-2750B provide several connection type: Link-local, Static IPv6, DHCPv6, Stateless Autoconfiguration, PPPoE, IPv6 in IPv4 Tunnel and 6to4.

\*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.

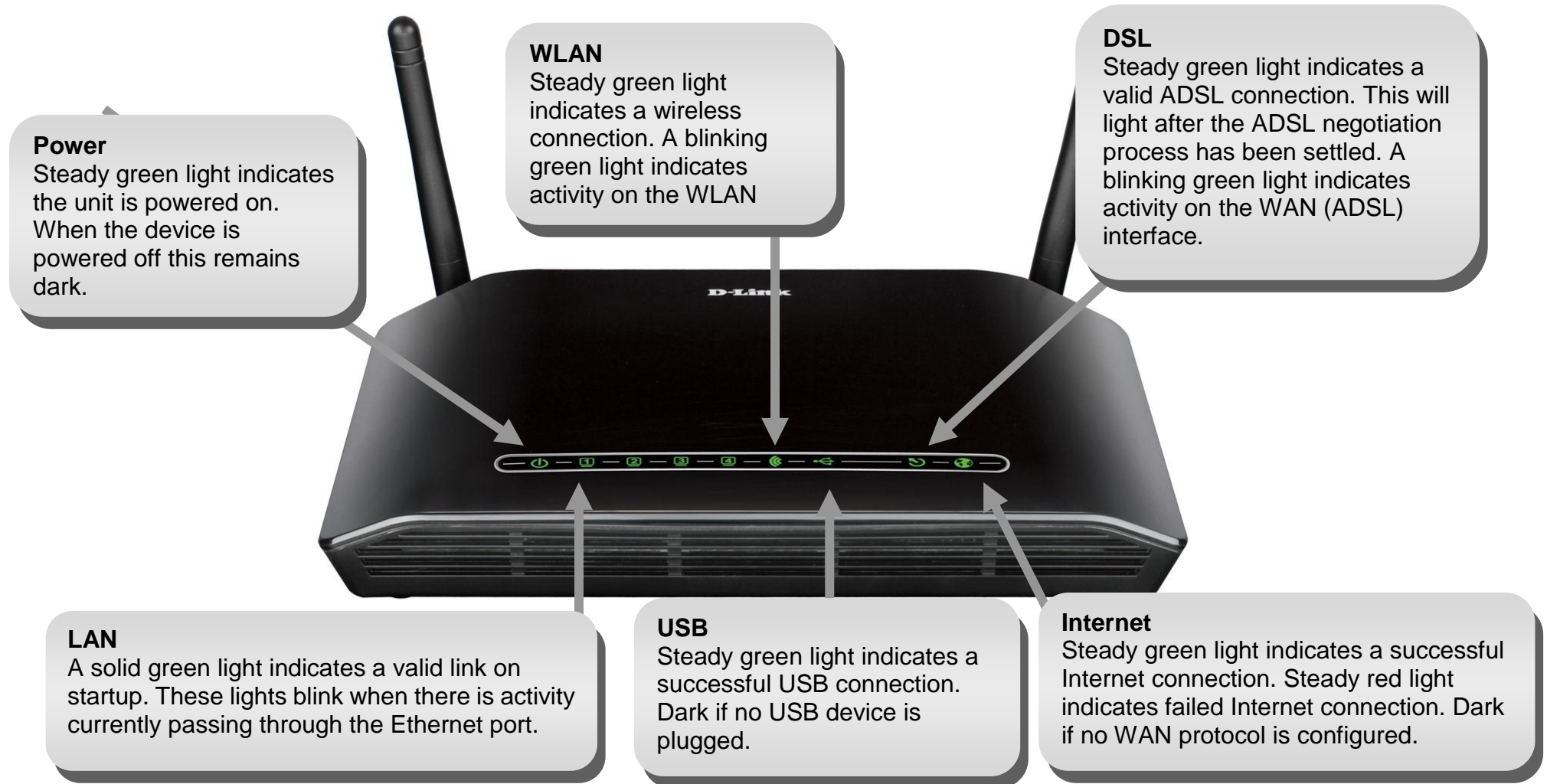
# Hardware Overview

## Connections



# Hardware Overview

## LEDs





# 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. You can print out the two pages below and use the tables to list this information. This way you have a hard copy of all the information needed to setup the Router. If it is necessary to reconfigure the device, all the necessary information can be easily accessed. Be sure to keep this information safe and private.

## **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-2750B 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 98 SE, Windows ME, Windows 2000, and Windows XP.

## **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 Opera, Microsoft Internet Explorer® version 6.0, Netscape Navigator® version 6.2.3, or later versions. 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 the Ethernet port 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 NIC 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.

### **802.11 Wireless LAN Configuration**

All the 802.11 wireless LAN settings may be configured on a single page using the web-based manager. For basic wireless communication you need to decide what channel to use and what SSID to assign. These two settings must be the same for any wireless workstations or other wireless access point that communicate with the DSL-2750B through the wireless interface.

Security for wireless communication can be accomplished in a number of ways. The DSL-2750B supports WPA (Wi-Fi Protected Access), WPA2, and mixed WPA/WPA2. Wireless access can also be controlled by selecting MAC addresses that are allowed to associate with the device. Please read the section on Wireless Configuration.

### **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. It is commonly in the form  user@isp.co.uk. 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/PPoA (PPPoE LLC, PPoA LLC or PPoA VC-Mux)
- Bridge Mode (1483 Bridged IP LLC or 1483 Bridged IP VC Mux)
- IPoA/MER (Static IP Address) (Bridged IP LLC, 1483 Bridged IP VC Mux, 1483 Routed IP LLC, 1483 Routed IP VC-Mux or IPoA)
- MER (Dynamic IP Address) (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 (ADSL2+ Multi-Mode) used for the Router automatically detects all types of ADSL, ADSL2, and ADSL2+ modulation. However, if you are instructed to specify the modulation type used for the Router, you may choose among the numerous options available on the Modulation Type drop-down menu on the ADSL Configuration window (Advanced > ADSL)

## **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 DSL-2750B

## **Username**

This is the Username needed access the Router's 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." The user cannot change this.

## **Password**

This is the Password you will be prompted to enter when you access the Router's management interface. The default Password is "admin." The user may change this.

## **LAN IP addresses for the DSL-2750B**

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-2750B**

This is the subnet mask used by the DSL-2750B, 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-2750B to this Ethernet port using an Ethernet cable. You can also use the Ethernet ports on the DSL-2750B to connect to other computer or Ethernet devices.

## **DHCP Client status**

Your DSL-2750B 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-2750B 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.)

It is recommended that you collect and record this information here, or in some other secure place, in case you have to re-configure your ADSL connection in the future.

Once you have the above information, you are ready to setup and configure your DSL-2750B Wireless ADSL Router.

# Wireless Installation Considerations

DSL-2750B lets you access your network using a wireless connection from virtually anywhere within the operating range of your wireless network. Keep in mind, however, that the number, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through, may limit the range. Typical ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or business. The key to maximizing wireless range is to follow these basic guidelines:

1. Keep the number of walls and ceilings between the D-Link router and other network devices to a minimum - each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.
2. Be aware of the direct line between network devices. A wall that is 1.5 feet thick (.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle it looks over 42 feet (14 meters) thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
3. Building Materials make a difference. A solid metal door or aluminum studs may have a negative effect on range. Try to position access points, wireless routers, and computers so that the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (fish tanks), mirrors, file cabinets, brick, and concrete will degrade your wireless signal.
4. Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate RF noise.
5. If you are using 2.4GHz cordless phones or X-10 (wireless products such as ceiling fans, lights, and home security systems), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone is not in use.



# Device Installation

The DSL-2750B Wireless ADSL Router maintains three separate interfaces, an Ethernet LAN, a wireless LAN and an ADSL Internet (WAN) connection. Carefully consider the Router's location suitable for connectivity for your Ethernet and wireless devices. You must have a functioning broadband connection via a bridge device such as a Cable or ADSL modem in order to use the Router's WAN function.

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, direct sunlight 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, desktop, or other stable platform. If possible, 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. Push down the Power button, and 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 Link/Act 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 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 off.
2. Turn on the power.
3. Wait for 10~15 seconds and then 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

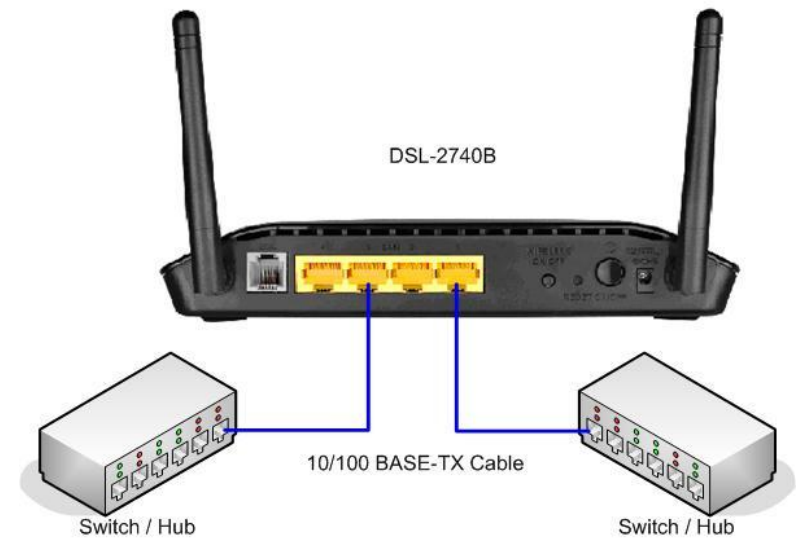
Use the ADSL cable included with the Router to connect it to a telephone wall socket or receptacle. Plug one end of the cable into the ADSL port (RJ-11 receptacle) on the rear panel of the Router and insert the other end into the RJ-11 wall socket. If you are using a low pass filter device, follow the 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 10BASE-TX Ethernet port 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 Mbps only. 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 port on the Router is 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.

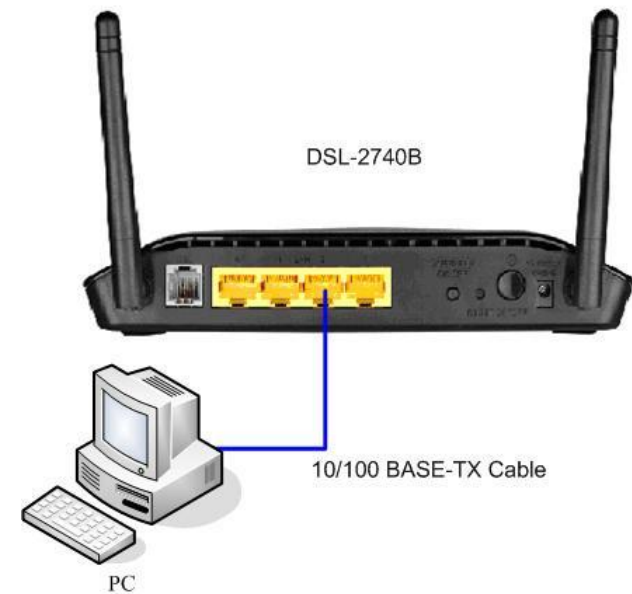
### Hub or Switch to Router Connection

Connect the Router to an uplink port (MDI-II) on an Ethernet hub or switch with a straight-through cable as shown in this diagram. 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 a 10/100BASE-TX Ethernet adapter card (NIC) installed on a PC using the Ethernet cable provided as shown in this diagram.



# Configuration

This section will show you how to configure your new D-Link wireless router using the web-based configuration utility.

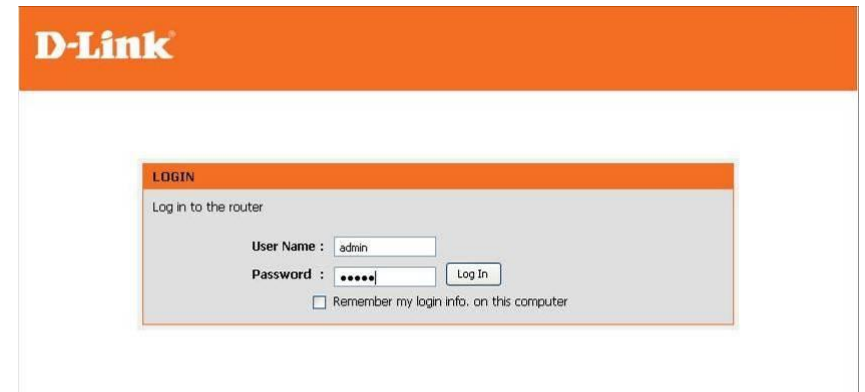
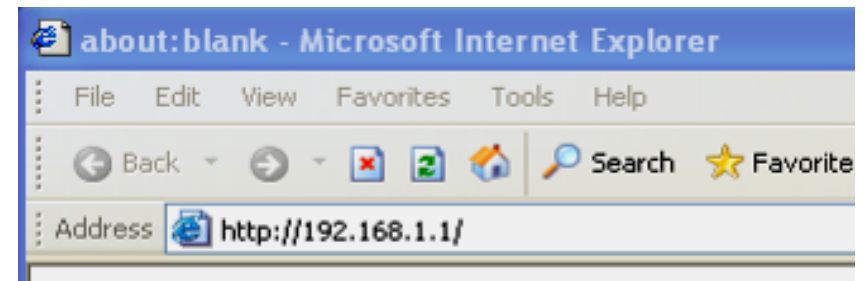
## Web-based Configuration Utility

### 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. The next section describes how to change the IP configuration for a computer running a Windows operating system to be a DHCP client.

To access the configuration utility, open a web-browser such as Internet Explorer and enter the IP address of the router (192.168.1.1).

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



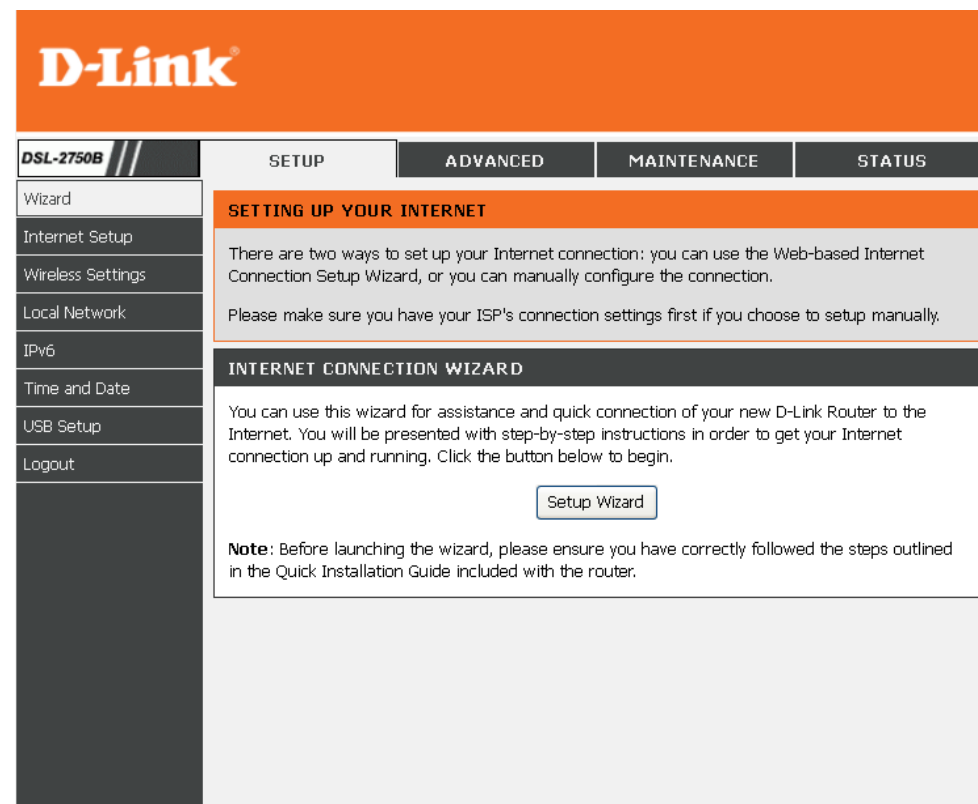
# SETUP

This chapter is concerned with using your computer to configure the WAN connection. The following chapter describes the various windows used to configure and monitor the Router including how to change IP settings and DHCP server setup.

# WIZARD

## ADSL SETUP

Click on the **Setup Wizard** button to launch the **Setup Wizard**.

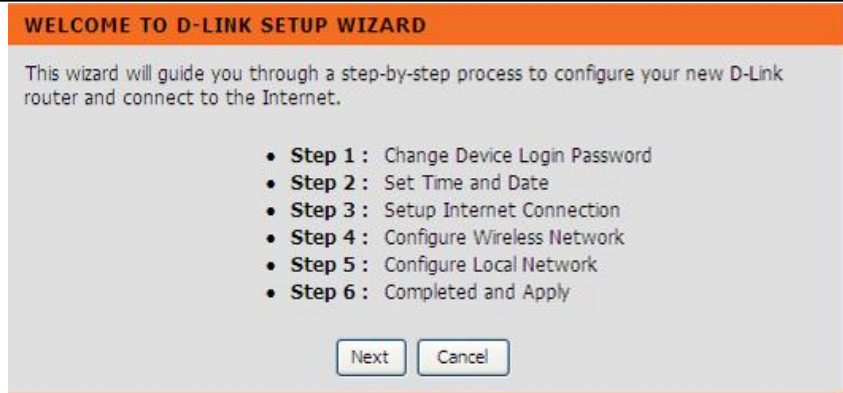


### WELCOME TO D-LINK SETUP WIZARD

There are four steps to configuring your router. Click on the **Next** button to continue.

### STEP 1: CHANGE YOUR DSL-2750B PASSWORD

The default password is "admin", in order to secure your network, please modify the password. Note: Confirm Password must be same as "**New Password**". Of course, you can click on the **Skip** to ignore the step.



## STEP 2: SET TIME AND DATE

### TIME SETTING:

Please enable the **Automatically synchronize with Internet time servers** if you want to use time server.

You can use the default time server web site or type any web server name you want on the **First NTP time server** and the **Second NTP time server**.

Please select the time zone of your country on the **Time Zone** option.

If you need to use the daylight saving, just choose the **Enable Daylight Saving**. Daylight saving is a period from late Spring to early Fall.

Set how many hours to change the time for Daylight saving Offset.

Configure Daylight Saving Dates, Daylight Saving time starts in the most parts of the **United States** on the second Sunday of March. Each time zone in the United States starts Daylight Saving time at 2 A.M. Thus, in the United States you must use **March, Second, Sunday, at 2:00 A.M.**

Daylight Saving time starts in the **European Union** on the last Sunday of March. Thus, in European Union, you must select **March, Last, Sunday**. The time must depend on your country's time zone. For example, In Germany you must type 2 because Germany's time zone is 1 hour ahead of GMT or UTC (GMT+1). Thus, in Germany you must use **March, Last, Sunday, at 1:00 A.M.**

1 > STEP 2: SET TIME AND DATE > 3 > 4 > 5 > 6

The Time Configuration option allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in and set the NTP (Network Time Protocol) Server. Daylight Saving can also be configured to automatically adjust the time when needed.

**TIME SETTINGS**

**Automatically synchronize with Internet time servers**

**First NTP time server:**    
**Second NTP time server:**

**TIME CONFIGURATION**

**Current Router Time :** 1.01.2000,00:01:51 Sat

**Time Zone :**

**Enable Daylight Saving :**

**Daylight Saving Offset :**

**Daylight Saving Dates :**

	Month	Week	Day	Time
Start	<input type="text" value="Jan"/>	<input type="text" value="1st"/>	<input type="text" value="Sun"/>	<input type="text" value="12 am"/>
End	<input type="text" value="Jan"/>	<input type="text" value="1st"/>	<input type="text" value="Sun"/>	<input type="text" value="12 am"/>

**SET THE DATE AND TIME MANUALLY**

**Date And Time :**

Year:	<input type="text" value="2011"/>	Month:	<input type="text" value="Jan"/>	Day:	<input type="text" value="1"/>
Hour:	<input type="text" value="12 am"/>	Minute:	<input type="text" value="4"/>	Second:	<input type="text" value="52"/>

### Section 3 - Configuration

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Daylight Saving time ends in the most parts of the United States on the First Sunday of November. Each time zone in the United States must use Daylight Saving time at 2:00 A.M. Thus, in the United States you must set **November, First, Sunday, at 2:00 A.M.**

Daylight Saving time ends in the European Union on the Last Sunday of October. For instance, in Germany you must type 2 because Germany's time zone is 1 hour ahead of GMT (GMT+1). Thus, in Germany you must use **March, Last, Sunday, at 1:00 A.M.**

#### **SET THE DATE AND TIME MANAULLY**

You can also use the **Copy Your Computer's Time Settings** to synchronize the Date and Time to your local PC. Or, you also can adjust **Year/Month/Day/Hour/Minute/Second** manually.

Click on the **Next** button to go to the next **Setup Wizard** window.



### STEP 3: SETUP INTERNET CONNECTION

You can check **Enable DSL Auto-scan** box to use DSL auto scan or disable to manual.

Please select your **Country**, **ISP Provider** and **Protocol**, and then **VPI/VCI**, and **Connection Type** will auto input.

If you can not find the country and ISP in the list below; you can select **Others**, and then input the **Protocol**, **VPI/VCI** and **Connection Type**.

Please enter the **VPI/VCI** numbers if provided by the ISP.

Click on the **Next** button to go to the next **Setup Wizard** window.

If your Protocol selects **PPPoE** or **PPPoA**, you need enter the **Username**, **Password** as provided by your ISP

Click on the **Next** button to go to the next **Setup Wizard** window.

1 > 2 > STEP 3: SETUP INTERNET CONNECTION > 4 > 5 > 6

Country : (Click to select) ▼

ISP Provider : (Click to select) ▼

Protocol : (Click to select) ▼

Connection Type : (Click to Select) ▼

VPI : (Enter a number)

VCI : (Enter a number)

Enable DSL Auto-scan :

Back Next Cancel

1 > 2 > STEP 3: SETUP INTERNET CONNECTION > 4 > 5 > 6

Please enter your Username and Password as provided by your ISP (Internet Service Provider). Please enter the information exactly as shown taking note of upper and lower cases. Click Next to continue.

Username :

Password :

Confirm Password :

Back Next Cancel

### Section 3 - Configuration

If your Protocol selects **Static IPoE**, you need enter the **IP Address**, **Subnet Mask**, **Default Gateway**, **Preferred DNS server** and **Alternate DNS server** as provided by your ISP.

Click on the **Next** button to go to the next **Setup Wizard** window.

1 > 2 > STEP 3: SETUP INTERNET CONNECTION > 4 > 5 > 6

You have selected Static IP Internet connection. Please enter the appropriate information below as provided by your ISP.

The Auto PVC Scan feature will not work in all cases so please enter the VPI/VCI numbers if provided by the ISP.

Click Next to continue.

IP Address :

Subnet Mask :

Default Gateway :

Preferred DNS server :

Alternate DNS server :

Back Next Cancel

### STEP 4: CONFIGURE WIRELESS NETWORK

Please check **Enable Your Wireless Network** box to enable your wireless network.

Enter **Wireless Network Name (SSID)** to identify your wireless network.

**Visibility Status** selects **Visible** can be found by wireless clients, **Invisible** to hide your wireless network

Choose one wireless encryption mode for your wireless network. The **Security Level** form low to high as below:  
**None < WEP < WPA-PSK < WPA2-PSK**

Click on the **Next** button to go to the next **Setup Wizard** window.

1 > 2 > 3 > STEP 4: CONFIGURE WIRELESS NETWORK > 5 > 6

Your wireless network is enabled by default. You can simply uncheck to disable it and click "Next" to skip configuration of wireless network.

Enable Your Wireless Network :

Your wireless network needs a name so it can be easily recognized by wireless clients. For security purposes, it is highly recommended to change the pre-configured network name.

Wireless Network Name (SSID) :

Select "Visible" to publish your wireless network and SSID can be found by wireless clients, or select "Invisible" to hide your wireless network so that users need to manually enter SSID in order to connect to your wireless network.

Visibility Status:  Visible  Invisible

In order to protect your network from hackers and unauthorized users, it is highly recommended you choose one of the following wireless network security settings.

None  Best

None  WEP  WPA-PSK  WPA2-PSK

Back Next Cancel

### STEP 5: CONFIGURE LOCAL NETWORK

Configure the DSL IP Address and Subnet Mask for Lan interfacne.

Default setting as below:

**IP Address:** 192.168.1.1

**Subnet Mask:** 255.255.255.0

Check **Enable DHCP Server** box to config **DHCP IP Address Range** and **DHCP Lease Time**. Default setting as below:

**DHCP IP Address Range:** 192.168.1.2 to 192.168.1.254

**DHCP Lease Time:** 24 hours

Checked the **Configure the second IP Address and Subnet Mask for Lan interface** box to enter the second IP address and Subnet Mask.

Click on the **Next** button to go to the next **Setup Wizard** window.

### STEP 6: COMPLETED AND APPLY

Click **Finish** button to complete Setup.

Click on the **Next** button to go to the next **Setup Wizard** window.

1 > 2 > 3 > 4 > STEP 5: CONFIGURE LOCAL NETWORK > 6

Configure the DSL Router IP Address and Subnet Mask for LAN interface.

**DEVICE SETUP**

IP Address : 192.168.1.1

Subnet Mask : 255.255.255.0

Enable DHCP Server

DHCP IP Address Range : 192.168.1.2 to 192.168.1.254

DHCP Lease Time : 24 (hours)

Configure the second IP Address and Subnet Mask for LAN interface

IP Address:

Subnet Mask:

Back Next Cancel

1 > 2 > 3 > 4 > 5 > STEP 6: COMPLETED AND APPLY

Setup complete. Click Back to review or modify settings. Click Finish to apply current settings.

Back Finish Cancel

# INTERNET SETUP

To access the **INTERNET SETUP** (WAN) settings window, click on the **INTERNET Setup** button in the **SETUP** directory in this page:

There are 3 items in **Internet setup**:

## WAN SETTING – ADSL

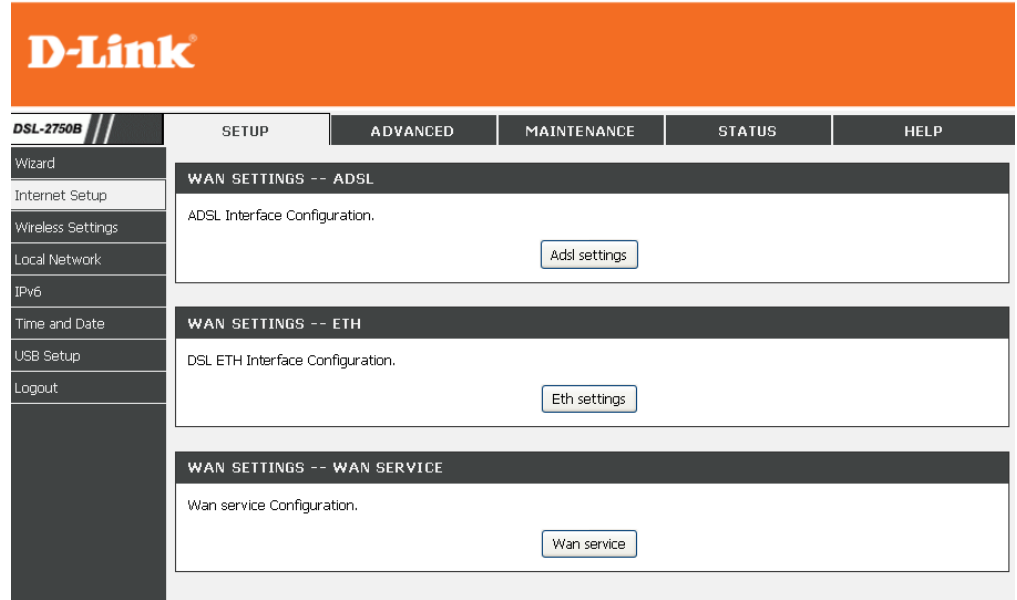
Click on the **Adsl settings** button if you want to configure ADSL Interface Configuration.

## WAN SETTING – ETH

Click on the **Eth settings** button if you want to configure DSL ETH Interface Configuration.

## WAN SETTING – WAN SERVICE

Click on the **Wan service** button if you want to configure Wan service Configuration.

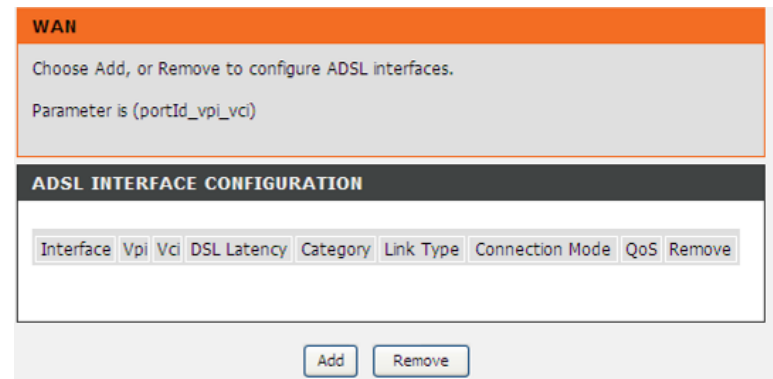


## ADSL INTERFACE CONFIGURATION:

Please click **Add** or **Remove** button to configure ADSL interface.

In **Add** setting page, set **VPI/VCI**, **DSL Latency** and **DSL Link Type**. This information was provided by your ISP

Select **Encapsulation Mode** and **Service Category**.



## Section 3 - Configuration

### Choose **Select Connection Mode**

The ATM settings allow the user to adjust ATM Quality of Service (QoS) or traffic parameters to suit specific traffic requirements. For applications or circumstances where packet loss or packet delay is a concern, ATM QoS can be adjusted to minimize problems. For most accounts, it will not be necessary to change these settings. Altering QoS settings can adversely affect performance of some commonly used Internet applications.

If you plan to change QoS or traffic parameters, contact your ISP or network services provider for information on what types of adjustment are available or possible for your account. Your ISP may not support the class of service you want to use.

To adjust ATM QoS parameters, select one of the Service Categories listed here and type in the PCR value in the entry field below. For the VBR service category, an additional parameter (SCR) must also be defined.

Click **Apply/Save** button to apply configuration.

#### ATM PVC CONFIGURATION

VPI: [0-255]

VCI: [32-65535]

**Select DSL Link Type (EoA is for PPPoE, IPoE, and Bridge.)**

EoA

PPPoA

IPoA

Encapsulation Mode:

Service Category:

**Select Connection Mode**

Default Mode - Single service over one connection

VLAN MUX Mode - Multiple Vlan service over one connection

MSC Mode - Multiple Service over one Connection

**Enable Quality Of Service**

Enabling packet level QoS for a PVC improves performance for selected classes of applications. QoS cannot be set for CBR and Realtime VBR. QoS consumes system resources; therefore the number of PVCs will be reduced. Use **Advanced Setup/Quality of Service** to assign priorities for the applications.

Enable Quality Of Service.

## Section 3 - Configuration

### ETH WAN INTERFACE CONFIGURATION:

Please click **Add** or **Remove** button to configure ETH WAN interfaces

In **Add** setting page, select a **ETH port** to configure ETH WAN and select **Connection Mode**

Click **Apply/Save** button to apply configuration.

The screenshot displays the configuration interface for the WAN and Ethernet WAN setup. It is divided into two main sections: WAN and ETHERNET WAN SETUP.

**WAN Section:**

- ETH WAN Interface Configuration:** A grey box with instructions: "Choose Add, or Remove to configure ETH WAN interfaces. Allow one ETH as layer 2 wan interface."
- ADSL INTERFACE CONFIGURATION:** A table with three columns: "Interface/(Name)", "Connection Mode", and "Remove". The table is currently empty.
- Buttons: "Add" and "Remove" buttons are located below the table.

**ETHERNET WAN SETUP Section:**

- ETHERNET WAN PORT SELECTION:** A grey box with instructions: "You can setup this device to Internet by another ways, assigning one of the LAN ports to be a WAN port. Therefore, you can keep using this device even you changed your internet service from ADSL to others, e.g. Cable Modem, FTTH."
- ETHERNET WAN PORT SELECTION:** A white box with instructions: "Please assign a Ethernet port to be the WAN port."
- Assign a Ethernet port:** A dropdown menu currently showing "lan1".
- Select Connection Mode:** Two radio button options:
  - Default Mode - Single service over one connection
  - VLAN MUX Mode - Multiple Vlan service over one connection
- Buttons: "Back" and "Apply/Save" buttons are located at the bottom.

## Section 3 - Configuration

### WAN SERVICE SETUP:

Please choose **Add** or **Remove** to configure WAN interfaces

In **Add** setting page, Choose a **layer 2 interface for this service**.

Click **Next** to go to the next page.

Select the **WAN Service Type** used for the Internet connection.

Your ISP has given this information to you. The connection types available are **PPPoE**, **IP over Ethernet** or **Bridge Mode**.

When WAN service type was selected, it will appear the connection description in **Enter Service Description**

Click **Next** to go to the next page.

**WAN**

Choose Add, Edit, or Remove to configure WAN interfaces.

**WAN SERVICE SETUP**

Interface	PVC	Description	Protocol	ConnId	Igmp	NAT	Firewall	State	Edit	Action
-----------	-----	-------------	----------	--------	------	-----	----------	-------	------	--------

Add Remove

**WAN**

Select a interface for wan service.

**WAN SERVICE INTERFACE CONFIGURATION**

Select a layer 2 interface for this service:

atm0/(0\_0\_33) ▼  
atm0/(0\_0\_33)  
eth3/LAN4

Back Next

**WAN**

Select the type of network protocol and encapsulation mode.

**WAN SERVICE CONFIGURATION**

Select WAN service type:

- PPP over Ethernet (PPPoE)
- IP over Ethernet
- Bridging

Enter Service Description:

Back Next



## Section 3 - Configuration

### For PPPoE/PPPoA connection

Type in the **Username** and **Password** (and PPPoE Service Name, if required by your ISP).

Type service name which is from your ISP on the **Servername** option.

Choose **PPPoE LLC/Snap-Bridging**, **PPPoE VC-mux**, **PPPoA LLC/encapsulation** and **PPPoA VC-mux**.

Set MTU value which you want but should be less than 1492 on the **MTU**

Enable the **Enable NAT** or **Fullcone NAT** when you want to have WAN and LAN.

Enable the **Enable Firewall** when you want to have the basic filter function, for example, ICMP ping to DSL-2750B.

#### PPP IP Extension:

Router passes the obtained IP address to the local PC and acts as a bridge only modem.

#### Use Static IPv4 Address:

Enter Static IPv4 Address

Enable the **Enable IGMP Multicast** to send IGMP query packets to the IPTV clients.

**Enable VLAN** and type the **VLAN ID (0-4095)** which your ISP assigns.

Click on the **Next button** to go to the next window.

The screenshot shows the WAN configuration window for a PPPoE/PPPoA connection. The window has an orange header with the text "WAN". Below the header, there is a message: "PPP usually requires that you have a user name and password to establish your connection. In the boxes below, enter the user name and password that your ISP has provided to you." The main area is titled "PPP USERNAME AND PASSWORD" and contains several input fields and checkboxes. The fields are: "PPP Username:" (empty), "PPP Password:" (empty), "PPPoE Service Name:" (empty), "Authentication Method:" (set to "AUTO" with a dropdown arrow), "MTU:" (set to "1492"), and "MRU:" (set to "1492"). Below these fields are several checkboxes: "Enable NAT" (checked), "Enable Fullcone NAT" (unchecked), "Enable Firewall" (checked), "Dial on demand (with idle timeout timer)" (unchecked), "PPP IP extension" (unchecked), "Use Static IPv4 Address" (unchecked), "Enable PPP Debug Mode" (unchecked), and "Bridge PPPoE Frames Between WAN and Local Ports" (unchecked). At the bottom of the window, there is a section titled "IGMP Multicast" with two checkboxes: "Enable IGMP Multicast" (checked) and "Enable VLAN" (unchecked). At the very bottom of the window, there are three buttons: "Back", "Next", and "Cancel".



## DNS AND DEFAULT GATEWAY

Select **Obtain DNS server address automatically** to get DNS from your ISP.

Or

Select **Use the following DNS server addresses** to type the DNS IPs in the **Preferred DNS server** and **Alternate DNS server**.

Click on the **Next button** to go to the next window.

## DEFAULT GATEWAY

Click on the **Next button** to go to the next window.

The screenshot shows the 'WAN' configuration window. At the top, there is an orange header with the text 'WAN'. Below it, a message box states: 'Click "Apply" button to save the new configuration. You must reboot the router to make the new configuration effective.' The main section is titled 'DNS SERVER CONFIGURATION' and contains two radio button options. The first option, 'Obtain DNS server address automatically', is selected. Below it, a dropdown menu shows 'pppoe\_atm0/CurrentInterface'. The second option, 'Use the following DNS server addresses', is unselected. Below this option are two text input fields labeled 'Preferred DNS server:' and 'Alternate DNS server:'. At the bottom of the window are three buttons: 'Back', 'Next', and 'Cancel'.

The screenshot shows the 'WAN' configuration window. At the top, there is an orange header with the text 'WAN'. Below it, a message box states: 'Select a preferred wan interface as the system default gateway. Click "Apply" button to save it.' The main section is titled 'DEFAULT GATEWAY' and contains a dropdown menu labeled 'Selected WAN Interface' with the value 'pppoe\_atm0/CurrentInterface'. At the bottom of the window are three buttons: 'Back', 'Next', and 'Cancel'.

## SETUP-SUMMARY

Check your Internet setting.

Click on the **Apply** to apply your setting..

### WAN

Make sure that the settings below match the settings provided by your ISP.

Click "Apply" to save these settings. Click "Back" to make any modifications.  
NOTE: You need to reboot to activate this WAN interface and further configure services over this interface.

#### SETUP - SUMMARY

PORT / VPI / VCI:	0 / 0 / 33
Connection Type:	PPPoE
Description:	pppoe_atm0
Service Category:	UBR
IP Address:	Automatically Assigned
Service State:	Enabled
NAT:	Enabled
Full Cone NAT:	Disabled
Firewall:	Enabled
IGMP Multicast:	Enabled

## Section 3 - Configuration

### For IP over Ethernet connection

Please Choose **Obtain an IP address automatically** or **Use the following Static IP address**.

When you choose **Obtain an IP address automatically**, set **Option 60 Vendor ID**, **Option 61 IAID**, **Option 61 DUID** which are provided by your ISP.

Select to enable or disable **Option 125** which is provided by your ISP.

When you choose **Use the following Static IP address**, Enter the **WAN IP Address**, **WAN Subnet Mask** and **WAN gateway IP address** which are provided by your ISP.

Click **Next** to go to the next page.

### WAN

Enter information provided to you by your ISP to configure the WAN IP settings.  
Notice: If "Obtain an IP address automatically" is chosen, DHCP will be enabled for PVC in MER mode.  
If "Use the following Static IP address" is chosen, enter the WAN IP address, subnet mask and interface gateway.

#### WAN IP SETTINGS

Obtain an IP address automatically

Option 60 Vendor ID:

Option 61 IAID:  (8 hexadecimal digits)

Option 61 DUID:  (hexadecimal digit)

Option 125:  Disable  Enable

Cloned MAC Address :

Use the following Static IP address:

WAN IP Address:

WAN Subnet Mask:

WAN gateway IP Address:

## WAN IP SETTING

Please Choose to enable **NAT**, **Firewall** and **IGMP Multicast**.

Click **Next** to go to the next page.

## DNS SERVER CONFIGURATION

Please Choose **Obtain DNS server address automatically** or **Use the following DNS server address**.

Set **Primary DNS Address** and **Secondary DNS Server IP Address** as instructed by your ISP when you choose **Use the following DNS server address**.

Click **Next** to go to the next page.

**WAN**

Enter information provided to you by your ISP to configure the WAN IP settings.  
Notice: If "Obtain an IP address automatically" is chosen, DHCP will be enabled for PVC in MER mode.  
If "Use the following Static IP address" is chosen, enter the WAN IP address, subnet mask and interface gateway.

**WAN IP SETTINGS**

**Network Address Translation Settings**

Network Address Translation (NAT) allows you to share one Wide Area Network (WAN) IP address for multiple computers on your Local Area Network (LAN).

Enable NAT

Enable Fullcone NAT

Enable Firewall

**IGMP Multicast**

Enable IGMP Multicast

Enable VLAN

Back Next

**WAN**

Click "Apply" button to save the new configuration. You must reboot the router to make the new configuration effective.

**DNS SERVER CONFIGURATION**

**Obtain DNS server address automatically**  
WAN Interface selected: ipoe\_atm0/CurrentInterface

**Use the following DNS server addresses**

Preferred DNS server:

Alternate DNS server:

Back Next Cancel

## Section 3 - Configuration

### Please Choose the **WAN Interface**

Click **Next** to go to the next page.

Check WAN setup summary,

click **Apply** button to apply the setting.

**WAN**

Select a preferred wan interface as the system default gateway. Click "Apply" button to save it.

**DEFAULT GATEWAY**

Selected WAN Interface: ipoe\_atm0/Currentiface

Back Next Cancel

**WAN**

Make sure that the settings below match the settings provided by your ISP.

Click "Apply" to save these settings. Click "Back" to make any modifications.  
NOTE: You need to reboot to activate this WAN interface and further configure services over this interface.

**SETUP - SUMMARY**

PORT / VPI / VCI:	0 / 0 / 33
Connection Type:	IPoE
Description:	ipoe_atm0
Service Category:	UBR
IP Address:	Automatically Assigned
Service State:	Enabled
NAT:	Enabled
Full Cone NAT:	Disabled
Firewall:	Enabled
IGMP Multicast:	Enabled

Back Apply

# WIRELESS

Use this section to configure the wireless settings for your D-Link router. Please note that changes made in this section will also need to be duplicated onto your wireless clients and PC.

To access the **WIRELESS** (WLAN) settings window, click on the **Wireless Setup** button in the **SETUP** tab.

## Wireless Network Setting

Click on the **Wireless Connection Setup Wizard** button to setup the wireless connection in an easy way. It will use Web-based Wizard to assist you in connecting to your new D-Link Systems Wireless Router.

Note: Before launching the wizard, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package.

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

If you would like to configure the Internet settings of your new D-Link Router manually, then click on the **Manual Wireless Connection Setup** button.



### Welcome to the D-Link Wireless Security Setup Wizard

**Enable Your Wireless Network** Your wireless network is enabled by default. You can simply uncheck the below checkbox to disable wireless

**Network Name (SSID)** identifies members of the Service Set. Accept the default name or change it to something else. If the default SSID is changed, all other devices on the wireless network must also use the same SSID.

**Automatically assign a network key (Recommended)** In order to protect your network from hackers and unauthorized users; we adapt Auto (WPA or WPA2) for your wireless security mode. We provide user a random pre-shared key by automatically.

**Manually assign a network key** You can also set it manually if you do not prefer the key we generate. Type a string (8-63 characters, such as a~z, A~Z, or 0~9.) on the **Pre-Shared** key.

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

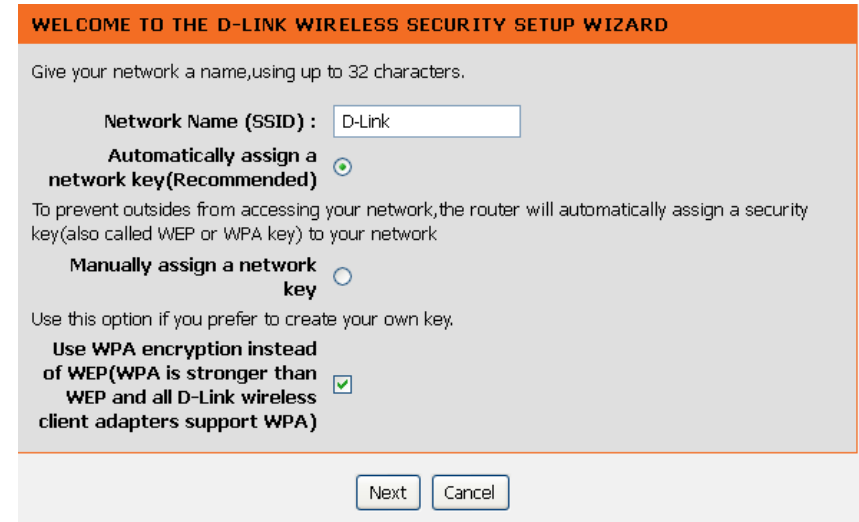
Click **Cancel** button to return to the main menu of Wireless Setup page.

Check your wireless network setting.

Click **Save** button to apply your setting.

Click **Prev** button to pre-page to modify your setting.

Click **Cancel** button to cancel your setting.



**WELCOME TO THE D-LINK WIRELESS SECURITY SETUP WIZARD**

Give your network a name, using up to 32 characters.

**Network Name (SSID) :**

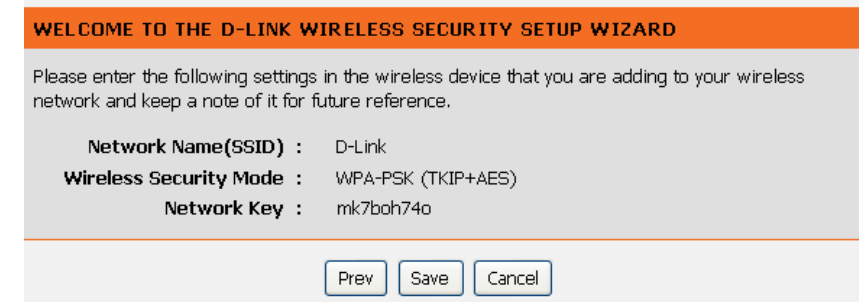
**Automatically assign a network key (Recommended)**

To prevent outsiders from accessing your network, the router will automatically assign a security key (also called WEP or WPA key) to your network.

**Manually assign a network key**

Use this option if you prefer to create your own key.

**Use WPA encryption instead of WEP (WPA is stronger than WEP and all D-Link wireless client adapters support WPA)**



**WELCOME TO THE D-LINK WIRELESS SECURITY SETUP WIZARD**

Please enter the following settings in the wireless device that you are adding to your wireless network and keep a note of it for future reference.

**Network Name (SSID) :** D-Link

**Wireless Security Mode :** WPA-PSK (TKIP+AES)

**Network Key :** mk7boh74o

## Section 3 - Configuration

### Add Wireless Device with WPS

The wizard shows the option to setup WPS by **Auto** or **Manual**.

**Auto** -- Select this option if your wireless device supports WPS(Wi-Fi Protected Setup)

**Manual** -- Select this option to display the current wireless settings for you to configure the wireless device manually.

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

Click **Cancel** button to return to the main menu of Wireless Setup page.

### Add Wireless Device with WPS (Automatically)

This page allows you to select PIN or PBC to use WPS method.

**PIN** -- Enter the PIN code from your wireless device and click the below **Connect** button to start the handshaking.

**PBC**-- Please press the **Connect** button and hold on for 3 seconds on your wireless device and presses the **Connect** button below within 120 seconds to start the handshaking.

Click **Prev** to go back to previous page.

**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 button below to begin.

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

Please select one of the following configuration methods and click next to continue.

Auto -- Select this option if your wireless device supports WPS(Wi-Fi Protected Setup)

Manual -- Select this option will display the current wireless settings for you to configure the wireless device manually

Next Cancel

**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 button below to begin.

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

There are two ways to add wireless device to your wireless network:

- PIN (Personal Identification Number)

- PBC (Push Button Configuration)

PIN :  Please enter the PIN from your wireless device and click the below "Connect" button

PBC Please press the push button on your wireless device and press the "Connect" button below within 120 seconds

Prev Connect



## Section 3 - Configuration

### Add Wireless Device with WPS (WI-FI PROTECTED SETUP) WIZARD

This page will count down the timer and please start WPS on the wireless device you are adding in time.

### Add Wireless Device with WPS (Manually)

This screen shows the information for the SSID, Wireless Security Mode and the Network key and allow you to modify the current setting, if you select **Auto** in the previous page, you won't see this page and please refer to next column.

Please type network name on the **Network Name SSID**.

Please type network key on the **Network Key**

Click **OK** button to process the next page.

### Add Wireless Device with WPS (WI-FI PROTECTED SETUP)

Finally it will show all the configurations. You can check if it is exact, please click the **Next** button.

#### 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 button below to begin.

#### VIRTUAL PUSH BUTTON

Please press down the Push Button (Physical or virtual) on the wireless device you are adding to your wireless network within **80** seconds ...

AP button pushed or PIN entered

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

The WPA2 (Wi-Fi Protected Access) key must meet one of the following guidelines:

- Between 8 and 63 characters (A longer WPA key is more secure than a short one)
- Exactly 64 characters using 0-9 and A-F

Network Name (SSID) :

Network Key :

Prev

Next

Cancel

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

Please enter the following settings in the wireless device that you are adding to your wireless network and keep a note of it for future reference.

Network Name (SSID) : D-Link

Wireless Security Mode : WPA2-PSK (TKIP+AES)

Network Key : 1234567890

Prev

Next

Cancel

### Manual WIRELESS Connection Setup SETTINGS

Click on the **Enable Wireless** box to allow the router to operate in the wireless environment. You can use the **Add New** button to set the schedule.

The **SSID** identifies members of the Service Set. Accept the default name or change it to something else. If the default SSID is changed, all other devices on the wireless network must also use the same SSID.

**Enable Auto Channel Scan** so that the router can select the best possible channel for your wireless network to operate on.

The **Wireless Channel** can let you select the channel of your access point. Channel availability is different for different countries due to their regulation.

Select **802.11 Mode** to operate in b/g/n mode. Or select specified mode to use. **802.11b only**, **802.11g only**, **802.11n only**.

**Mixed 802.11g and 802.11b** which means DSL-2750B will detect the clients to use 802.11g or 802.11b to synchronize.

**WIRELESS**

Use this section to configure the wireless settings for your D-Link router. Please note that changes made on this section will also need to be duplicated to your wireless clients and PC.

**WIRELESS NETWORK SETTINGS**

Enable Wireless :  Always

Wireless Network Name (SSID) : D-Link

Country : AUSTRALIA-AU

Wireless Channel : Auto

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

Bandwidth : 802.11b only

Transmission Rate : 802.11n only

Hide Wireless Network :

AP Isolation :

**WIRELESS**

Use this section to configure the wireless settings for your D-Link router. Please note that changes made on this section will also need to be duplicated to your wireless clients and PC.

**WIRELESS NETWORK SETTINGS**

Enable Wireless :  Always

Wireless Network Name (SSID) : D-Link

Country : AUSTRALIA-AU

Wireless Channel : Auto

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

Bandwidth : 20 MHz

Transmission Rate : Auto 20/40 MHz (Mbit/s)

Hide Wireless Network :

AP Isolation :

### Section 3 - Configuration

	MANRATE	HT20/GI=0	HT40/GI=0	HT40/GI=1
MCS 0	0x80	6.5Mbps	13.5Mbps	X
MCS 1	0x81	13Mbps	27Mbps	X
MCS 2	0x82	19.5Mbps	40.5Mbps	X
MCS 3	0x83	26Mbps	54Mbps	X
MCS 4	0x84	39Mbps	81Mbps	X
MCS 5	0x85	52Mbps	108Mbps	X
MCS 6	0x86	58.5Mbps	121.5Mbps	X
MCS 7	0x87	65Mbps	135Mbps	150Mbps
MCS 8	0x88	13Mbps	27Mbps	X
MCS 9	0x89	26Mbps	54Mbps	X
MCS 10	0x8a	39Mbps	81Mbps	X
MCS 11	0x8b	52Mbps	108Mbps	X
MCS 12	0x8c	78Mbps	162Mbps	X
MCS 13	0x8d	104Mbps	216Mbps	X
MCS 14	0x8e	117Mbps	243Mbps	X
MCS 15	0x8f	130Mbps	270Mbps	300Mbps

**Mixed 802.11n, 802.11g and 802.11b** which means DSL-2750B will detect the clients to use 802.11n, 802.11g or 802.11b to synchronize.

**Channel Width**, Choose 20MHz or Auto 20/40MHz to decide the Transmission Rate.

**Transmission Rate**, suggest keeping the Best (automatic) selection. This is related to Receive Sensitivity as follows,

If you only use the Transmission rate of the 20MHz, please refer to the right picture.

**WIRELESS**

Use this section to configure the wireless settings for your D-Link router. Please note that changes made on this section will also need to be duplicated to your wireless clients and PC.

**WIRELESS NETWORK SETTINGS**

**Enable Wireless :**  Always New Schedule

**Wireless Network Name (SSID) :**

**Country :** AUSTRALIA-AU

**Wireless Channel :** Auto

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

**Bandwidth :** 20 MHz

**Transmission Rate :** Best (automatic) (Mbit/s)

**Hide Wireless Network :** Best (automatic)

**AP Isolation :** 130, 117, 104, 78, 52, 39, 26, 13, 6.5, 58.5, 52, 39, 26, 19.5, 13, 6.5, 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1

**Security Mode :** (TKIP or AES)

**WIRELESS SECURITY MODE**

To protect your privacy you can choose three wireless security modes including WPA, WPA2 and Auto.

The **WEP** mode is the original wireless security. It provides a basic level of security.

For maximum compatibility, use **WPA** mode. WPA uses TKIP cipher. Some gaming and legacy devices work only in this mode. For better security, use **WPA2** mode. WPA2 uses CCMP cipher and legacy stations can still connect using WPA security. Use **Auto** mode to achieve the best of both worlds. The Auto mode uses WPA for legacy clients and WPA2 for WPA2 capable. Also the strongest security mode (or in other words AES) will be used.

**Security Mode :** (TKIP or AES)

**AUTO (WPA OR WPA2)**

## Section 3 - Configuration

If you want to use the max. rate 150Mbps or the max. rate 300Mbps on 40MHz, please choose the **Channel Width:** Auto 20/40MHz

Choose Visible or Invisible to decide if you want to show its SSID.

### WIRELESS

Use this section to configure the wireless settings for your D-Link router. Please note that changes made on this section will also need to be duplicated to your wireless clients and PC.

#### WIRELESS NETWORK SETTINGS

**Enable Wireless :**  Always  New Schedule

**Wireless Network Name (SSID) :** D-Link

**Country :** AUSTRALIA-AU

**Wireless Channel :** Auto

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

**Bandwidth :** Auto 20/40 MHz

**Transmission Rate :** Best (automatic) (Mbit/s)

**Hide Wireless Network :** Best (automatic)

**AP Isolation :** 300  
130 [270]  
117 [243]  
104 [216]  
78 [162]  
52 [108]  
39 [81]  
26 [54]  
13 [27]  
150  
65 [135]  
58.5 [121.5]  
52 [108]  
39 [81]  
26 [54]  
19.5 [40.5]  
13 [27]  
6.5 [13.5]  
54 [108]  
48 [96]  
36 [72]  
24 [48]  
18 [36]  
12 [24]  
11  
9 [18]  
6 [12]  
5.5  
2

#### WIRELESS SECURITY MODE

To protect your privacy you can three wireless security modes in

The **WEP** mode is the original wireless security.

For maximum compatibility, use **WPA** mode. WPA devices work only in this mode. For better security, use WPA2 (CCMP) cipher and legacy stations use WPA. Use **WPA2** mode to achieve the highest security. WPA2 mode uses WPA for legacy clients that are not WPA2 capable. Also the strongest security mode (or in other words AES cipher).

**Security Mode :** (TKIP or AES)

**AUTO (WPA OR WPA2)**

## Section 3 - Configuration

### WIRELESS SECURITY Mode

To protect your privacy you can configure wireless security features. This device supports three wireless security modes including: **WEP**, **WPA**, **WPA2**, Auto(WPA or WPA2). WEP is the original wireless encryption standard. WPA provides a higher level of security. WPA-Personal does not require an authentication server. The WPA-Enterprise option requires an external RADIUS server.

#### WIRELESS SECURITY MODE

To protect your privacy you can configure wireless security features. This device supports three wireless security modes including: WEP, WPA, WPA2 and Auto.

The **WEP** mode is the original wireless encryption standard. WPA provides a higher level of security.

For maximum compatibility, use **WPA**. This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode. For best security, use **WPA2** mode. This mode uses AES (CCMP) cipher and legacy stations are not allowed access with WPA security. Use **Auto (WPA or WPA2)** mode to achieve a balance of strong security and best compatibility. This mode uses WPA for legacy clients while maintaining higher security with stations that are WPA2 capable. Also the strongest cipher that the client supports will be used.

To achieve better wireless performance use **WPA2** security mode (or in other words AES cipher).

Security Mode :

- None
- WEP
- WPA
- WPA2
- Auto (WPA or WPA2)

Please take note of your SSID and to your wireless devices and PC. need to duplicate the same settings

## WIRELESS SECURITY MODE – WEP

**WEP (Wireless Encryption Protocol)** encryption can be enabled for security and privacy. WEP encrypts the data portion of each frame transmitted from the wireless adapter using one of the predefined keys. The router offers 64 or 128 bit encryption with four keys available.

Select **WEP Key Length** from the drop-down menu. (**128 bit** is stronger than **64 bit**)

Specify the encryption key from the **Current Network Key** drop-down menu.

Enter the key into the **WEP Key** field 1~4. (Key length is outlined at the bottom of the window.)

Select **Authentication** type from the drop-down menu. (**Shared** is better than **Open**)

Click on the **Apply Settings** button to apply settings.

## WIRELESS SECURITY MODE – WPA, WPA2

Use **WPA** or **WPA2** mode to achieve a balance of strong security and best compatibility. This mode uses WPA for legacy clients while maintaining higher security with stations that are WPA2 capable. Also the strongest cipher that the client supports will be used. For best security, use **WPA2** mode. This mode uses AES (CCMP) cipher and legacy stations are not allowed access with WPA security. For maximum compatibility, use **WPA**. This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode.

Choose **WPA / WPA2 / Auto(WPA or WPA2)** on the **Security Mode**

**WEP**

WEP is the wireless encryption standard. To use it you must enter the same key(s) into the router and the wireless stations. For 64 bit keys you must enter 10 hex digits into each key box. For 128 bit keys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 to 9 or a letter from A to F. For the most secure use of WEP set the authentication type to "Shared Key" when WEP is enabled.

You may also enter any text string into a WEP key box, in which case it will be converted into a hexadecimal key using the ASCII values of the characters. A maximum of 5 text characters can be entered for 64 bit keys, and a maximum of 13 characters for 128 bit keys.

WEP Key Length : **128 bit (13 characters or 26 hex digits)** (length applies to all keys)

WEP Key 1 :

WEP Key 2 :

WEP Key 3 :

WEP Key 4 :

Default WEP Key : WEP Key 1

Authentication : Open

Please take note of your SSID and security Key as you will need to duplicate the same settings to your wireless devices and PC.

Apply Settings Cancel

**WIRELESS SECURITY MODE**

To protect your privacy you can configure wireless security features. This device supports three wireless security modes including: WEP, WPA, WPA2 and Auto.

The **WEP** mode is the original wireless encryption standard. WPA provides a higher level of security.

For maximum compatibility, use **WPA**. This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode. For best security, use **WPA2** mode. This mode uses AES (CCMP) cipher and legacy stations are not allowed access with WPA security. Use **Auto (WPA or WPA2)** mode to achieve a balance of strong security and best compatibility. This mode uses WPA for legacy clients while maintaining higher security with stations that are WPA2 capable. Also the strongest cipher that the client supports will be used.

To achieve better wireless performance use **WPA2** security mode (or in other words AES cipher).

Security Mode : Auto (WPA or WPA2) (TKIP or AES)



## Section 3 - Configuration

Type the value seconds on the **Group Key Update Interval**. The default value is 1800.

### WPA / WPA2 -PSK (Personal)

Type the string on the **Pre-Shared Key**

Click the **Apply Settings** button to save the configuration.

### WPA / WPA2 (Enterprise)

Some network-security experts now recommend that wireless networks use 802.1X security measures to overcome some weaknesses in standard WEP applications. A RADIUS server is used to authenticate all potential users. .

Enter your RADIUS server data: **IP Address**, **Port**, and **Key**.

Click on the **Save Settings** button to apply settings.

**AUTO (WPA OR WPA2)**

WPA-Personal does not require an authentication server. The WPA-Enterprise option requires an external RADIUS server

WPA Mode : WPA/WPA2-PSK (Personal) ▼

Group Key Update Interval : 1800 (seconds)

**PRE-SHARED KEY**

Pre-Shared Key : 1234567890

Please take note of your SSID and security Key as you will need to duplicate the same settings to your wireless devices and PC.

Apply Settings Cancel

**EAP (802.1X)**

When WPA enterprise is enabled, the router uses EAP (802.1x) to authenticate clients via a remote RADIUS server.

Authentication Timeout : 36000 (seconds)

RADIUS server IP Address : 0.0.0.0

RADIUS server Port : 1812

RADIUS server Shared Secret :

Please take note of your SSID and security Key as you will need to duplicate the same settings to your wireless devices and PC.

Apply Settings Cancel

# LOCAL NETWORK

You can configure the LAN IP address to suit your preference. Many users will find it convenient to use the default settings together with DHCP service to manage the IP settings for their private network. The IP address of the Router is the base address used for DHCP. In order to use the Router for DHCP on your LAN, the IP address pool used for DHCP must be compatible with the IP address of the Router. The IP addresses available in the DHCP IP address pool will change automatically if you change the IP address of the Router.

To access the **Local Network** setting window, click on the **Local Network** button in the **SETUP** tab.

## ROUTER SETTINGS

To change the **Router IP Address** or **Subnet Mask**, type in the desired values.

## DHCP SERVER SETTINGS (OPTIONAL)

The **Enable DHCP Server** is selected by default for the Router's Ethernet LAN interface.

Set the **DHCP IP Address Range** and the default is from **192.168.1.2** to **192.168.1.254**. The IP address pool can be up to 253 IP addresses.

The screenshot shows the D-Link web interface for a DSL-2750B router. The top navigation bar includes 'DSL-2750B', 'SETUP', 'ADVANCED', 'MAINTENANCE', and 'STATUS'. The 'Local Network' menu item is selected in the left sidebar. The main content area is titled 'LAN SETUP' and contains the following information:

- ROUTER SETTINGS**: A section for configuring the local network settings of the router. It includes fields for:
  - Router IP Address: 192.168.1.1
  - Subnet Mask: 255.255.255.0
  - Device Name: D-Link
- Optional DHCP Server Settings**: A section with a checkbox labeled 'Configure the second IP Address and Subnet Mask for LAN interface'. Below this checkbox are fields for:
  - IP Address: [Empty field]
  - Subnet Mask: [Empty field]



## Section 3 - Configuration

### Set the value hours on the **DHCP Lease Time**

If you don't want DSL-2750B to be the DHCP server, you can enable

**DHCP relay** to pass the DHCP discover packets of the clients to another DHCP server.

Please set the DHCP server IP address on the **DHCP Server IP Address**

### ADD/EDIT DHCP RESERVATION (OPTIONAL)

Select the **Enable** to let you reserve the **IP Address** for the designated PC with the configured **MAC Address**.

The **Computer Name** can help you recognize the PC with the **MAC Address**, such as "Father's Laptop".

Clicking on the **Copy Your PC's MAC Address** button to help you get the Mac address from the PC you are using now browsing this web page.

Click on the **Save button** to save the settings

### DHCP RESERVATIONS LIST

After saved the DHCP reservation, the **DHCP RESERVATIONS LIST** will list the configuration.

The **NUMBER OF DYNAMIC DHCP CLIENTS** shows how many DHCP clients (PC or Laptop) connected to the router currently.

Click on the **Save Settings** button.

**DHCP SERVER SETTINGS (OPTIONAL)**

Use this section to configure the built-in DHCP Server to assign IP addresses to the computers on your network. **Note that NAT should be disabled before using the DHCP relay function.**

Enable DHCP Server :

DHCP IP Address Range : 192.168.1.2 to 192.168.1.254

DHCP Lease Time : 24 (hours)

DHCP Relay :

DHCP Server IP Address :

Save Settings

**DHCP RESERVATIONS LIST**

Enable	Computer Name	MAC Address	IP Address
--------	---------------	-------------	------------

Add Edit Delete

**ADD/EDIT DHCP RESERVATION (OPTIONAL)**

Enable :

Computer Name : Father

IP Address : 192.168.1.99

MAC Address : 00:1a:2b:3c:4d:5e

Copy Your PC's MAC Address

Apply Cancel

**NUMBER OF DYNAMIC DHCP CLIENTS :**

Computer Name	MAC Address	IP Address	Expire Time
RQ-Carey-P	00:1b:11:b5:82:1b	192.168.1.2	23 hours, 51 minutes, 16 seconds

## Section 3 - Configuration

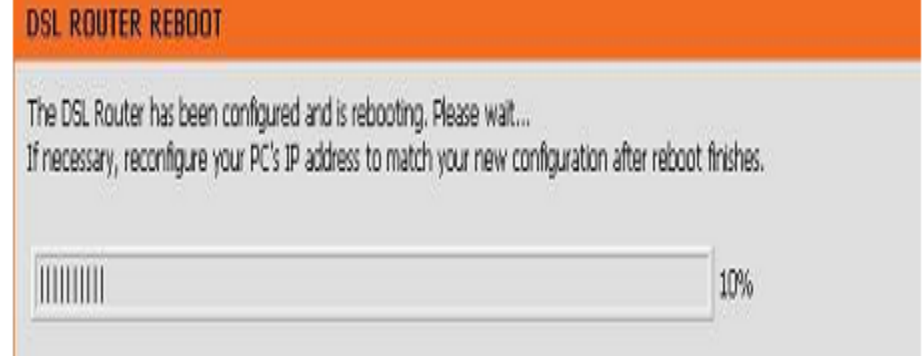
---

You will be asked to reboot by a pop-up window. Click on the **OK** to reboot the router.

### **LAN SETUP**

Do not turn the Router off while it is rebooting.

You might need to re-configure your PC NIC settings to enter the Router's web manager after reboot.



# IPv6

The **IPv6** configuration option allows you configure IPv6 internet connection. You can configure follow **IPv6 Internet Connection Setup Wizard** utilize or **Manually Ipv6 Internet Connection Setup**.

To access the **IPv6** setting window, click on the **IPv6** button in the **SETUP** tab

## IPv6 INTERNET CONNECTION

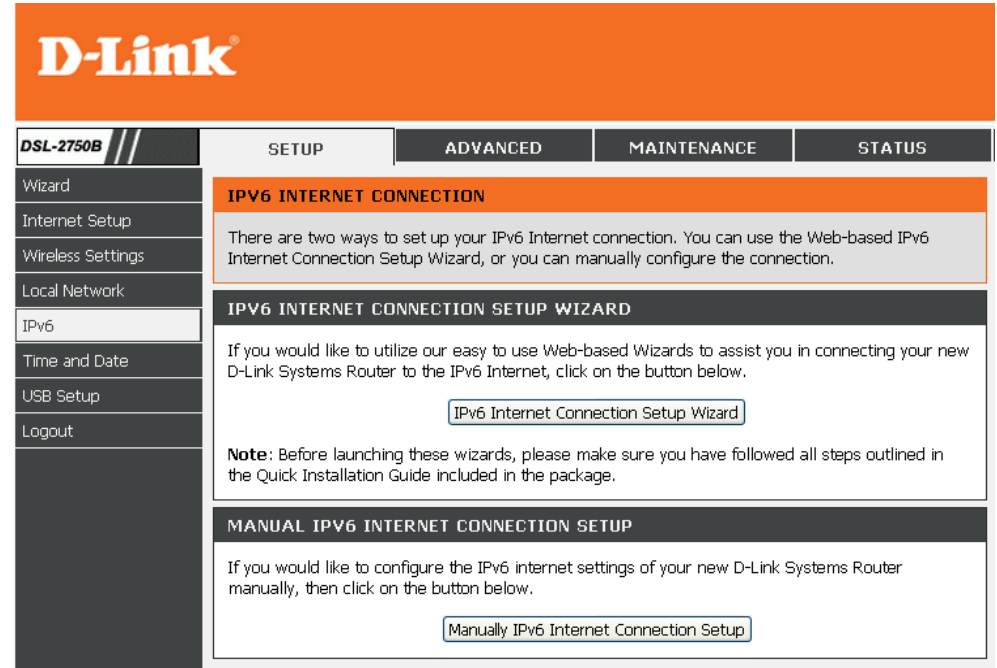
There are two ways to set up your IPv6 Internet connection.

### IPv6 Internet Connection Setup Wizard

You can use Web-based Wizards to assist you in connecting your new D-Link Systems Router to the IPv6 Internet.

### Manual IPv6 Internet Connection Setup

You can configure the IPv6 internet settings of your new D-Link Systems Router manually



## Section 3 - Configuration

### IPv6 Internet Connection Setup Wizard

#### Welcome to the D-Link IPv6 Internet Connection Setup Wizard

This wizard will guide you through a step-by-step process to configure a new connection to the IPv6 Internet

Click on the **Next** button.

#### Step 1: Configure Your IPv6 Internet Connection

Router is detecting your IPv6 Internet connection type

Click on the **Next** button.

If Router unable to detect your IPv6 Internet connection type

Click **Try again** button to detecting again or click **Guide me through the IPv6 setting** button to select your Internet Connection type.

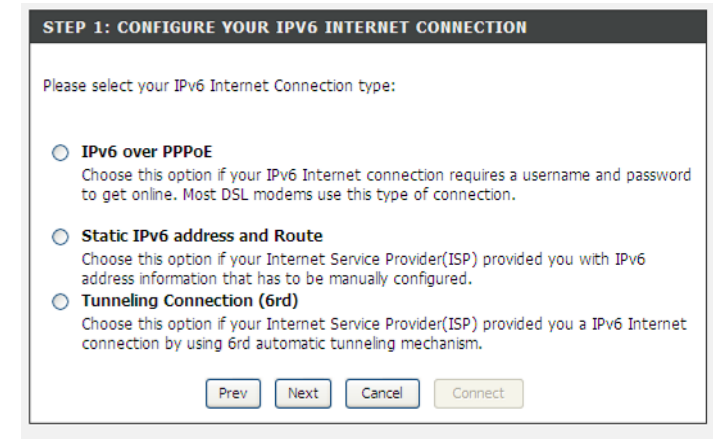
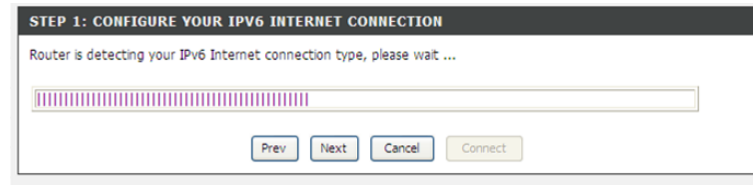
Choose one of your IPv6 connection type

#### IPv6 over PPPoE

#### Static IPv6 address and Route

#### Tunneling Connection (6rd)

Click on **Next** button



### IPv6 over PPPoE

To set up this connection you will need to have a Username and Password from your IPv6 Internet Service Provider

Type **User Name**, **password**, **Verify password** and **service Name** (if necessarily).

Click on **Next** button

**SET USERNAME AND PASSWORD CONNECTION(PPPOE)**

To set up this connection you will need to have a Username and Password from your IPv6 Internet Service Provider. If you do not have this information, please contact your ISP.

PPPoE Session :  Share with IPv4  Create a new session

User Name :

Password :

Verify Password :

Service Name :  (optional)

Note: You may also need to provide a Service Name. If you do not have or know this information, please contact your ISP.

### Static IPv6 address and Route

To set up this connection you will need to have a complete list of IPv6 information provided by your IPv6 Internet Service Provider.

Click on **Next** button

**SET STATIC IPV6 ADDRESS CONNECTION**

To set up this connection you will need to have a complete list of IPv6 information provided by your IPv6 Internet Service Provider. If you have a Static IPv6 connection and do not have this information, please contact your ISP.

Use Link-Local Address :

IPv6 Address :

Subnet Prefix Length :

Default Gateway :

Primary IPv6 DNS Server :

Secondary IPv6 DNS Server :

### Tunneling Connection (6rd)

To set up this connection you will need to have a complete list of IPv6 information provided by your IPv6 Internet Service Provider.

Click on **Next** button

**SET UP 6RD TUNNELING CONNECTION**

To set up this 6rd tunneling connection you will need to have the following information from your IPv6 Internet Service Provider. If you do not have this information, please contact your ISP.

6rd IPv6 Prefix :

IPv4 Address :

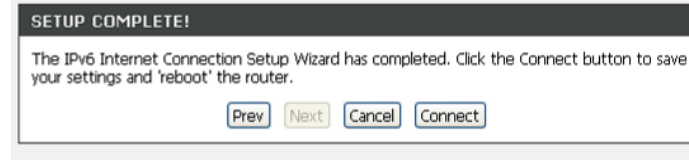
Assigned IPv6 Prefix :

6rd Border Relay IPv4 Address :

IPv6 DNS Server :

## SETUP COMPLETE

After setup IPv6 connection by **Wizard**, click **Connect** button to establish IPv6 Internet connection



## Manual IPv6 Internet Connection Setup

Use this section to configure your IPv6 Connection type. If you are unsure of your connection method, please contact your Internet Service Provider.

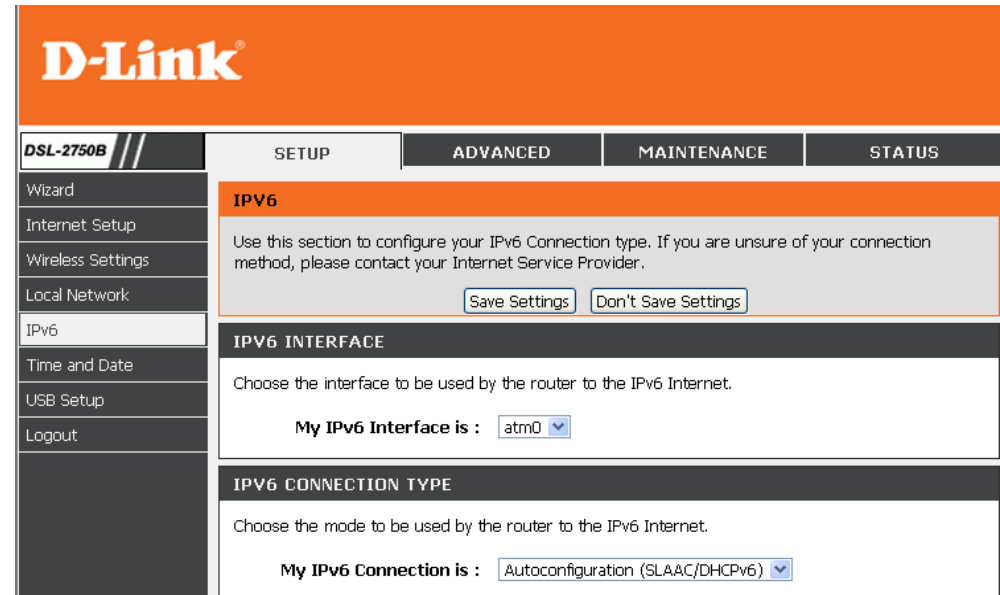
## IPv6 INTERFACE

Choose the IPv6 Interface in the drop-down menu.

## IPv6 CONNECTION TYPE

Choose the IPv6 internet connection type in the drop-down menu:

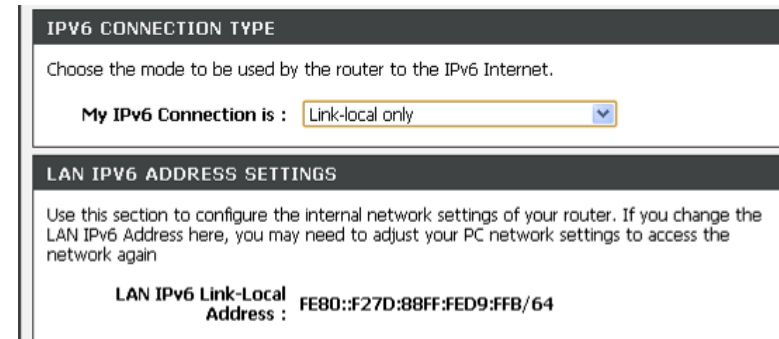
**Link-local only,**  
**Static IPv6,**  
**Autoconfiguration (SLAAC/DHCPv6),**  
**PPPoE,**  
**DS-Lite.**



**Connection type: Link-local only**

## LAN IPv6 ADDRESS SETTING

Link-local only is communication with in internal network. The **LAN IPv6 Link-local Address** is used default setting.



**Connection type: Static IPv6**

**WAN IPv6 ADDRESS SETTINGS**

You can check **Use Link-Local Address box** to Link-local only, or type the **WAN IPv6 Address** and **Subnet Prefix Length**.

Type **Default Gateway**, **Primary IPv6 DNS server** and **Secondary IPv6 DNS server**.

These information provided by your Internet Service Provider (ISP)

**LAN IPv6 ADDRESS SETTINGS**

Configure the internal network settings of your router. You can change the **LAN IPv6 Address**.

**ADDRESS AUTOCONFIGURATION SETTINGS**

**SLAAC+Stateless DHCP** to set computers on Router network obtained IPv6 address by stateless DHCP.

**SLAAC+RDNSS** to set computers on Router network obtained IPv6 address by RDNSS

**Stateful DHCP** to set computers on Router network obtained IPv6 address by Stateful DHCP, you need type the IPv6 Address Range (Start and End)

**IPv6 CONNECTION TYPE**

Choose the mode to be used by the router to the IPv6 Internet.

My IPv6 Connection is :

**WAN IPv6 ADDRESS SETTINGS**

Enter the IPv6 address information provided by your Internet Service Provider (ISP).

Use Link-Local Address :

IPv6 Address :

Subnet Prefix Length :

Default Gateway :

Primary IPv6 DNS Server :

Secondary IPv6 DNS Server :

**LAN IPv6 ADDRESS SETTINGS**

Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again

LAN IPv6 Address :  /64

LAN IPv6 Link-Local Address : FE80::F27D:88FF:FED9:FB/64

**ADDRESS AUTOCONFIGURATION SETTINGS**

Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.

Enable automatic IPv6 address assignment :

Autoconfiguration Type :

Router Advertisement Lifetime :  (minutes)

**ADDRESS AUTOCONFIGURATION SETTINGS**

Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.

Enable automatic IPv6 address assignment :

Autoconfiguration Type :

IPv6 Address Range(Start) :  ::

IPv6 Address Range(End) :  ::

IPv6 Address Lifetime :  (minutes)

**Connection type: Autoconfiguration (SLAAC/DHCPv6)**

**IPv6 DNS SETTING**

Choose Obtain IPv6 DNS servers automatically or type **Primary IPv6 DNS server** and **Secondary IPv6 DNS server**.

**LAN IPv6 ADDRESS SETTINGS**

**Enable DHCP-PD** to used Prefix Delegation assigned IPv6 Prefix. Or you can change the **LAN IPv6 Address**.

**ADDRESS AUTOCONFIGURATION SETTINGS**

**SLAAC+Stateless DHCP** to set computers on Router network obtained IPv6 address by stateless DHCP.

**SLAAC+RDNSS** to set computers on Router network obtained IPv6 address by RDNSS

**Stateful DHCP** to set computers on Router network obtained IPv6 address by Stateful DHCP, you need type the IPv6 Address Range (Start and End)

**IPv6 CONNECTION TYPE**  
Choose the mode to be used by the router to the IPv6 Internet.  
My IPv6 Connection is : Autoconfiguration (SLAAC/DHCPv6)

**IPv6 DNS SETTINGS**  
Obtain a DNS server address automatically or enter a specific DNS server address.  
 Obtain IPv6 DNS servers automatically  
 Use the following IPv6 DNS servers  
Primary IPv6 DNS Server :  
Secondary IPv6 DNS Server :

**LAN IPv6 ADDRESS SETTINGS**  
Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again  
Enable DHCP-PD :   
LAN IPv6 Address : /64  
LAN IPv6 Link-Local Address : FE80::F27D:88FF:FE09:FB/64

**ADDRESS AUTOCONFIGURATION SETTINGS**  
Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.  
Enable automatic IPv6 address assignment :   
Autoconfiguration Type : SLAAC + Stateless DHCP  
Router Advertisement Lifetime : 30 (minutes)

**ADDRESS AUTOCONFIGURATION SETTINGS**  
Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.  
Enable automatic IPv6 address assignment :   
Autoconfiguration Type : Stateful DHCP  
IPv6 Address Range(Start) : ::0001  
IPv6 Address Range(End) : ::0200  
IPv6 Address Lifetime : 30 (minutes)



## Connection type: PPPoE

### PPPoE session set Share with IPv4

At **Address Mode** if you choose **Dynamic IP**, router will obtain WAN IPv6 address by Dynamically or you can set static IPv6 address in **Static IP Address/Prefix Length** to router.

Type **User Name**, **Password**, **Verify Password**, **Service Name**(if necessarily),

Reconnect Mode set to **Always on**, set MTU value which you want but should be less than 1492 on the **MTU**

These information provided by your Internet Service Provider (ISP)

### IPv6 DNS SETTING

Choose Obtain IPv6 DNS servers automatically or type **Primary IPv6 DNS server** and **Secondary IPv6 DNS server**.

### LAN IPv6 ADDRESS SETTINGS

**Enable DHCP-PD** to use Prefix Delegation assigned IPv6 Prefix. Or you can change the **LAN IPv6 Address**.

### ADDRESS AUTOCONFIGURATION SETTINGS

**SLAAC+Stateless DHCP** to set computers on Router network obtained IPv6 address by stateless DHCP.

**IPv6 CONNECTION TYPE**  
Choose the mode to be used by the router to the IPv6 Internet.  
My IPv6 Connection is:

**PPPOE**  
Enter the information provided by your Internet Service Provider (ISP).  
PPPoE session:  Share with IPv4  Create a new session  
Address Mode:  Dynamic IP  Static IP  
IP Address/Prefix Length:   
User Name:   
Password:   
Verify Password:   
Service Name:  (optional)  
Reconnect Mode:  Always on  On demand  Manual  
Maximum Idle Time:  (minutes, 0=infinite)  
MTU:  (bytes) MTU default = 1492

**IPv6 DNS SETTINGS**  
Obtain a DNS server address automatically or enter a specific DNS server address.  
 Obtain IPv6 DNS servers automatically  
 Use the following IPv6 DNS servers  
Primary IPv6 DNS Server:   
Secondary IPv6 DNS Server:

**LAN IPv6 ADDRESS SETTINGS**  
Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again.  
Enable DHCP-PD:   
LAN IPv6 Address:  /64  
LAN IPv6 Link-Local Address: FE80::F27D:88FF:FED9:FF/64

**ADDRESS AUTOCONFIGURATION SETTINGS**  
Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.  
Enable automatic IPv6 address assignment:   
Autoconfiguration Type:   
Router Advertisement Lifetime:  (minutes)

## Section 3 - Configuration

**SLAAC+RDNSS** to set computers on Router network obtained IPv6 address by RDNSS

**Stateful DHCP** to set computers on Router network obtained IPv6 address by Stateful DHCP, you need type the IPv6 Address Range (Start and End)

### Connection type: DS-Lite

Choose **DS-Lite DHCPv6 Option**, If you choose **Manual Configuration**, need type the **AFTR IPv6 Address**.

Type **B4 IPv4 Address** (if necessarily)

Type **WAN IPv6 Address** and **IPv6 WAN Default Gateway**.

**ADDRESS AUTOCONFIGURATION SETTINGS**

Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.

Enable automatic IPv6 address assignment :

Autoconfiguration Type : Stateful DHCP

IPv6 Address Range(Start) :  :: 0001

IPv6 Address Range(End) :  :: 0200

IPv6 Address Lifetime : 30 (minutes)

**IPv6 CONNECTION TYPE**

Choose the mode to be used by the router to the IPv6 Internet.

My IPv6 Connection is : DS-Lite

**AFTR ADDRESS INTERNET CONNECTION TYPE**

Enter the AFTR address information provided by your Internet Service Provider(ISP)..

DS-Lite Configuration :  DS-Lite DHCPv6 Option  Manual Configuration

AFTR IPv6 Address : 3ffe:501:ffff:300::1/64

B4 IPv4 Address : 192.0.0.2 (Optional)

WAN IPv6 Address : 3ffe:501:ffff:200::1/64

IPv6 WAN Default Gateway : 3ffe:501:ffff:500::1/64

# TIME AND DATE

The **Time and Date** configuration option allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in and set the NTP (Network Time Protocol) Server. Daylight Saving can also be configured to automatically adjust the time when needed.

To access the **TIME** setting window, click on the **Time and Date** button in the **SETUP** tab

## TIME SETTING:

Check the **Automatically synchronize with Internet time servers**

Select specific time server to use from the **First NTP time server** and **Second NTP time server** specific NTP server name.

## TIME CONFIGURATION:

Select your operating time zone from the **Time Zone** drop-down menu.

If you need to use the daylight saving, just choose the **Enable Daylight Saving**. Daylight saving is a period from late Spring to early Fall.

Set how many hours to change the time for Daylight saving Offset.

Configure Daylight Saving Dates, Daylight Saving time starts in the most parts of the **United States** on the second Sunday of March. Each time zone in the United States starts Daylight Saving time at 2 A.M. Thus, in the United States you must use **March, Second, Sunday, at 2:00 A.M.**

Daylight Saving time starts in the **European Union** on the last Sunday of March. Thus, in European Union, you must select **March, Last, Sunday**. The time must depend on your country's time zone. For example, In

The screenshot shows the D-Link DSL-2750B web interface. The left sidebar contains a navigation menu with the following items: Wizard, Internet Setup, Wireless Settings, Local Network, IPv6, Time and Date (highlighted), USB Setup, and Logout. The main content area has a top navigation bar with tabs: SETUP (selected), ADVANCED, MAINTENANCE, and STATUS. Below the tabs, there is a 'TIME' section with a sub-header 'TIME' and a description: 'The Time Configuration option allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in and set the NTP (Network Time Protocol) Server. Daylight Saving can also be configured to automatically adjust the time when needed.' Below this is the 'TIME SETTINGS' section, which includes a checkbox for 'Automatically synchronize with Internet time servers'. Underneath are two rows for NTP time servers: 'First NTP time server' with a dropdown menu showing 'ntp.dlink.com.tw' and an empty text input field, and 'Second NTP time server' with a dropdown menu showing 'ntp1.dlink.com' and an empty text input field. The 'TIME CONFIGURATION' section shows 'Current Router Time : Wednesday, January 7, 1970 05:41:26 AM' and a 'Time Zone' dropdown menu showing '(GMT-08:00) Pacific Time, Tijuana'. Below that is an 'Enable Daylight Saving' checkbox, a 'Daylight Saving Offset' dropdown menu showing '-2:00', and 'Daylight Saving Dates' with dropdown menus for Month (Jan), Week (1st), Day (Sun), and Time (12 am). At the bottom, there are 'Start' and 'End' fields with dropdown menus for Month (Jan), Week (1st), Day (Sun), and Time (12 am).

### Section 3 - Configuration

Germany you must type 2 because Germany's time zone is 1 hour ahead of GMT or UTC (GMT+1). Thus, in Germany you must use **March, Last, Sunday, at 1:00 A.M.**

Daylight Saving time ends in the most parts of the United States on the First Sunday of November. Each time zone in the United States must use Daylight Saving time at 2:00 A.M. Thus, in the United States you must set **November, First, Sunday, at 2:00 A.M.**

Daylight Saving time ends in the European Union on the Last Sunday of October. For instance, in Germany you must type 2 because Germany's time zone is 1 hour ahead of GMT (GMT+1). Thus, in Germany you must use **March, Last, Sunday, at 1:00 A.M.**

#### SET THE DATE AND TIME MANAULLY

You can also use the **Copy Your Computer's Time Settings** to synchronize the Date and Time to your local PC. Or, you also can adjust **Year/Month/Day/Hour/Minute/Second** manually.

Please click the **Apply** button to save the configuration.

SET THE DATE AND TIME MANUALLY

Date And Time :

Year: 2005    Month: Jan    Day: 1

Hour: 1 am    Minute: 41    Second: 48

Copy Your Computer's Time Settings

Apply    Cancel

# USB SETUP

To configure the USB Device on the router, click USB Setup in the SETUP tab. Router can configure as a USB device server when you plug-in a USB Storage device. Router can configure as a USB Printer server when you plug-in a USB Printer device. Router can connect to Internet via 3G when you plug-in a 3G USB Modem.

To access the **USB SETUP** setting window, click on the **USB SETUP** button in the **SETUP** tab

**Print Server:** allows you to share your USB printer to all the connected local hosts.

First connect your printer to the **USB** port. Then enter the data below. Last, configure your local hosts (Add Printer Wizard) to utilize this printer.

To configure USB port to **Print Server** setting, choose **Enable SharePort and Print Server** in the USB Setup page and press **Apply** button,

And you also can share the USB printer or USB storage device to all connect local hosts by **SharePort Utility**.

SharePort Utility manual shows in Appendix–F **D-Link SharePort™**



## Section 3 - Configuration

To setup Printer Server, press **setup** button in **USB SETUP** window enter the server configuration page

Hook the **Enable on-board print server** to enable the on-board printer server

Type the **Printer name** of the printer which must be exactly the same as configured in the local hosts while setting up a network printer.

Type an number from 1 to 128 in **Make an Model**

Press **Apply** button to apply configuration.

Add a new Printer on your PC

**Note: Not every printer is supported. Please check your local vendor for more information.**

### USB SETUP -- PRINTER SERVER

You can configure, update, and maintain the correct Print Server settings.

Setup

### SERVER CONFIGURATION

Enable on-board print server.

Printer name

Make and model

Apply

Cancel

### Add Printer Wizard

#### Specify a Printer

If you don't know the name or address of the printer, you can search for a printer that meets your needs.



What printer do you want to connect to?

Browse for a printer

Connect to this printer (or to browse for a printer, select this option and click Next):

Name:

Example: \\server\printer

Connect to a printer on the Internet or on a home or office network:

URL:

Example: http://server/printers/myprinter/.printer

< Back

Next >

Cancel

## Section 3 - Configuration

**USB Storage Server** allows you to share your USB storage device to all the connected local hosts.

First connect your USB Storage device to the **USB** port. Then enter the data below.

To configure USB port to USB Storage server setting, choose **Enable USB Storage Server** in the USB Setup page and press **Apply** button,

To setup USB Storage Server, press **Setup** button in **STORAGE SETUP** window enter the server configuration page

**USB DEVICE STATUS** can check the USB Device Status and press **Status Refresh** button to refresh the status.

Press **Safely Remove Device** button to safely remove device.

## SAMBA FILE SERVER

Enable **SAMBA FILE SERVER** to configure USB Storage Device as a SAMBA File server.

Setup the **Server Name**, **Server Description** and **Group Name** of file server.

You can remote access when the **Remote Access** was hooked.

**USB SETUP**

With SharePort feature(USB over IP technology), the USB device on the router will be connected to your PC over IP. This router can also be configured as a USB device server that you can enable this function and plug-in your USB device to share it with other people over your LAN network. With Print Server feature(USB printer server), the printer device via the router's USB port will be connected to your PC.

With USB Storage Server feature, the USB device on router can be managed and the router can be configured as a file server.

Enable SharePort and Print Server  
 Enable USB Storage Server

Apply

**USB SETUP -- STORAGE SERVER**

You can manage the storage device and configure the router as a file server.

Setup

**USB DEVICE STATUS**

*Warning!* If you would like to unplug the USB storage, please click "Safely Remove Device" button in the "Current USB Device Status" table to make sure all un-saved data have been written into disk completely. Directly unplugging device may cause your USB storage crash.

Connected Device	Partitions	Size	Service Status
JetFlash(TS1GJF150 )	1	978.05 MB	<input type="button" value="Deactivate"/>

Status Refresh   Safely Remove Device

**SAMBA FILE SERVER**

Enable Samba File Server :

Server Name : DSL2750B

Server Description : File Server

Group Name : WORKGROUP

Remote Access :

Apply   Cancel

You can check **Add**, **Edit** and **Delete** the user in the **SAMBA FILE SERVER USER PROFILE**.

### FTP FILE SERVER

Enable **FTP SERVER** to config USB Storage Device as a FTP file server.

Setup the **Port Name**, **Maxmun connection**, and **Idle timeout** of FTP file server.

You can remote access when the **Remote Access** was hooked.

You can check **Add**, **Edit** and **Delete** the user in the **FTP SERVER USER PROFILE**.

### WEB FILE SERVER

Enable **WEB SERVER** to config USB Syorage Device as a WEB file server.

Click the Browse to choose a folder for **Path**, and type **Port Number** of WEB file server.

You can remote access when the **Remote Access** was hooked.

**SAMBA FILE SERVER USER PROFILE**

Enable	Username	Access Mode	Connected Device	Path
<input type="checkbox"/>	Enable	anonymous	Full-access	JetFlash(TS1GJF150 ), Volume 1 /

**FTP FILE SERVER**

Enable FTP Server :

Port Number :

Maximum connections :

Idle timeout :  min. (0 for no timeout)

Remote Access :

**FTP SERVER USER PROFILE**

Enable	User ID	Access Mode	Connected Device	Path
<input type="checkbox"/>	Enable	anonymous	Read-only	JetFlash(TS1GJF150 ), Volume 1 /

**WEB FILE SERVER**

Enable Web Server :

Volume : JetFlash(TS1GJF150 ),

Path :

Port Number :

Remote Access :



## Section 3 - Configuration

### 3G USB MODEM SETUP

Click **Setup** button in **3G USB MODEM SETUP** window to configure 3G USB MODEM

#### Enable the **Enable 3G USB Modem**

Type the **PIN Code**, **Telephone Number**, and **APN**, which provide by your 3G ISP.

#### 3G USB MODEM SETUP

You can configure 3G USB Modem via USB port. And your device would be able to connect to Internet via 3G USB Modem.

Setup

#### 3G USB MODEM SETTING

Please ensure the 3G USB Modem has been plugged into USB port firstly and continue to setup as below. Once Setting saved, please go to Internet setup to setup the priority of Internet connection.

Enable 3G USB Modem:

PIN Code:

Telephone Number:

APN:

Save/Apply

Cancel

# ADVANCED

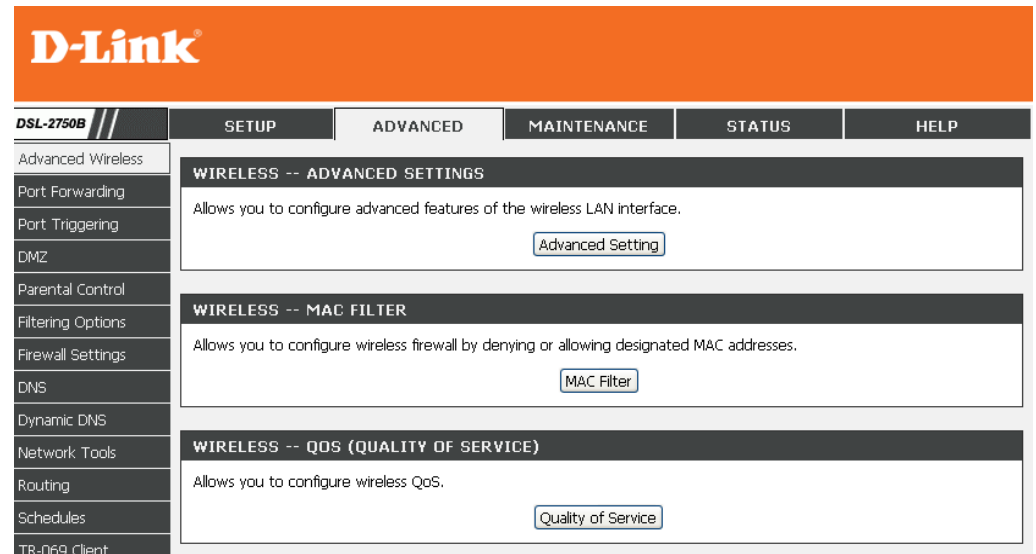
This chapter includes the more advanced features used for network management and security as well as administrative tools to manage the router, view status and other information used to examine performance and for troubleshooting.

## ADVANCED WIRELESS

These options are for users that wish to change the behavior of their wireless radio from the standard setting. D-Link does not recommend changing these settings from the factory default. Incorrect settings may impair the performance of your wireless radio. The default settings should provide the best wireless radio performance in most environments.

To access the **Advanced Wireless** setting window, click on the **Advanced Wireless** button in the **ADVANCED** tab

**Advanced Wireless** divided to **Advanced Setting**, **MAC Filter** and **Quality of Service**.



### Advanced Settings

Most about wireless setting was referred in **Wireless** chapter, If you need to change the other default setting,

- Please type the value on the **Fragmentation Threshold**
- Please type the value on the **RTS Threshold**
- Please type the value on the **DTIM Interval**
- Please type the value on the **Beacom Interval**
- Please enable or disable on the **XPress™ Technology**
- Please choose 20%, 40%, 60%, 80% and 100% on the **Transmit Power**.

### GUEST WIRELESS SETTING

You can check **Enable Wireless Guest** box to enable wireless guest network.

**Wireless Network Name (SSID)** in here is for guest wireless

If you select **Hide Wireless Network**, the wireless network will hide when the wireless client surveying.

Enable **AP Isolation** can isolate the guest WLAN with other LAN or WLAN client in router.

You can also set **Security Mode** for guest WLAN.

Please click the **Save/Apply** button to save the configuration.

**WIRELESS -- ADVANCED SETTINGS**

This page allows you to configure advanced features of the wireless LAN interface. You can select a particular channel on which to operate, force the transmission rate to a particular speed, set the fragmentation threshold, set the RTS threshold, set the wake up interval for clients in power-save mode, set the beacon interval for the access point, set XPress mode and set whether short or long preambles are used.

Click "Save/Apply" to configure the advanced wireless options.

**ADVANCED SETTINGS**

Band: 2.4GHz  
Channel: Auto  
Bandwidth: 20MHz  
Support 802.11n Client Only: Off  
Basic Rate: Default  
Fragmentation Threshold(byte): 2346  
RTS Threshold(byte): 2347  
DTIM Interval(ms): 1  
Beacon Interval(ms): 100  
Transmit Power: 100%

**GUEST WIRELESS SETTINGS**

Enable Wireless Guest Network:   
Wireless Network Name (SSID): DSL-2750B Guest  
Hide Wireless Network:   
AP Isolation: Off

**GUEST WIRELESS SECURITY MODE**

To protect your privacy you can configure wireless security features. This device supports three wireless security modes including: WEP, WPA, WPA2 and Auto.

The **WEP** mode is the original wireless encryption standard.WPA provides a higher level of security.

For maximum compatibility,use **WPA**.This mode uses TKIP cipher.Some gaming and legacy devices work only in this mode.For best security,use **WPA2** mode.This mode uses AES(CCMP) cipher and legacy stations are not allowed access with WPA security.Use **Auto(WPA or WPA2)** mode to achieve a balance of strong security and best compatibility.This mode uses WPA for legacy clients while maintaining higher security with stations that are WPA2 capable.Also the strongest cipher that the client supports will be used

To achieve better wireless performance use **WPA2** security mode (or in other words AES cipher).

Security Mode: None

Save/Apply

## WIRELESS MAC FILTER

You can choose the **Disable/ Allow All/ Deny All** of **Wireless MAC Filter**.

**Disable:** You don't want to launch the feature.

**Allow All:** Support Wlan devices make connection, except the mac address which is added in the filter table.

**Deny All:** Support deny all Wlan devices make connection, except the mac address which is added in the filter table.

Press **Add / Remove** button to add/remove the MAC Filter in the list

Type filter name on the **FILTER NAME**

Type wireless mac address on the **Wireless MAC Address**

Wireless Filter - Maximum 32 entries can be added.

You can choose Enable or Disable to decide if the data has the WMM on the **WMM(Wi-Fi Multimedia)**

**WMM No Acknowledge** means that the receiver doesn't have to send back the Acknowledge packet

Enable **WMM APSD** can reduce power lost.

Please click the **Apply** button to save the configuration.

**WIRELESS -- MAC FILTER**

Sets wireless MAC filter.  
Enter the MAC address and click "Add" to add the MAC address to the wireless MAC address filters.

**WIRELESS -- MAC FILTER**

Select SSID: **D-Link**

MAC Restrict Mode:  Disabled  Allow  Deny

MAC Address
<input type="checkbox"/> 00:1A:2B:3C:4D:EE

**Add** **Remove**

**WIRELESS -- QoS**

This page lets you add, remove, enable and disable wireless QoS.

**WMM(WI-FI MULTIMEDIA) SETTINGS**

WMM(Wi-Fi Multimedia): **Enabled**

WMM No Acknowledgement: **Disabled**

WMM APSD: **Enabled**

**Apply**

# PORT FORWARDING

Use the **PORT FORWARDING** window to open ports in your router and re-direct data through those ports to a single PC on your network (WAN-to-LAN traffic). The Port Forwarding function allows remote users to access services on your LAN such as FTP for file transfers or SMTP and POP3 for e-mail. The DSL-2750B will accept remote requests for these services at your Global IP Address, using the specified TCP or UDP protocol and port number, and then redirect these requests to the server on your LAN with the LAN IP address you specify. Remember that the specified Private IP Address must be within the useable range of the subnet occupied by the Router.

To access the **PORT FORWARDING** settings window, click on the **PORT FORWARDING** button in the **ADVANCED** tab

## PORT FORWARDING SETUP

Press **Add** button to add port forwarding.

**D-Link**

DSL-2750B // SETUP ADVANCED MAINTENANCE STATUS

**PORT FORWARDING**

Port Forwarding allows you to direct incoming traffic from the WAN side (identified by protocol and external port) to the internal server with a private IP address on the LAN side. The internal port is required only if the external port needs to be converted to a different port number used by the server on the LAN side. A maximum of 32 entries can be configured.

Select the service name, and enter the server IP address and click "Apply" to forward IP packets for this service to the specified server. **NOTE: The "Internal Port End" cannot be changed. It is the same as "External Port End" normally and will be the same as the "Internal Port Start" or "External Port End" if either one is modified**

**PORT FORWARDING SETUP**

Server Name	External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End	Server IP Address	Remote IP Address	Inbound Filter
<input type="button" value="Add"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>								

### Section 3 - Configuration

Select a **Service** drop-down menu for a pre-configured application or select **Custom Server** type a name input box to define your own application.

The **External Port** shows the ports opened for remote users in the WAN side of the router. The **TCP/UDP** means the protocol type of the opened ports.

The **Internal Port** shows the ports opened in the PC with the appointed **IP Address**. The **TCP/UDP** means the protocol type of the opened ports.

Please click the **Apply** button to save the configuration.

**PORT FORWARDING SETUP**

Remaining number of entries that can be configured:32

Use Interface : pppoe\_atm0/ppp0

Server Name :

Select a Service : (Click to select)

Custom Server :

Inbound Filter : Allow All

Server IP Address : 192.168.1. [192.168.1.2 - 192.168.1.254]

External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End	Remote Ip Address
		TCP			
		TCP			
		TCP			
		TCP			
		TCP			
		TCP			
		TCP			
		TCP			
		TCP			
		TCP			
		TCP			
		TCP			
		TCP			
		TCP			

Apply Cancel

# PORT TRIGGERING

Some applications such as games, video conferencing, remote access applications and others require that specific ports in the Router's firewall be opened for access by the applications.

To access **PORT TRIGGERING** setting windows, click on the PORT TRIGGERING button in the **ADVANCED left menu** directory

## PORT TRIGGERING

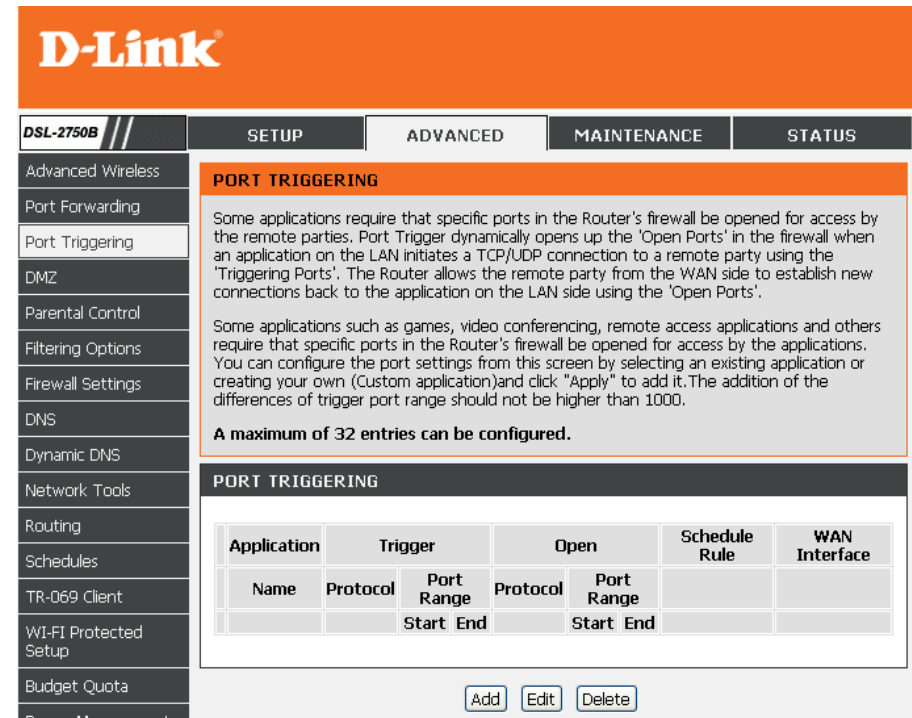
Press **Add** button to add port forwarding.

Select a **Service** drop-down menu for a pre-configured application or select **Custom Server** type a name input box to define your own application.

The **External Port** shows the ports opened for remote users in the WAN side of the router. The **TCP/UDP** means the protocol type of the opened ports.

The **Internal Port** shows the ports opened in the PC with the appointed **IP Address**. The **TCP/UDP** means the protocol type of the opened ports.

Please click the **Apply** button to save the configuration.



### Section 3 - Configuration

Select a **Service** drop-down menu for a pre-configured application or select **Custom Server** type a name input box to define your own application.

The **External Port** shows the ports opened for remote users in the WAN side of the router. The **TCP/UDP** means the protocol type of the opened ports.

The **Internal Port** shows the ports opened in the PC with the appointed **IP Address**. The **TCP/UDP** means the protocol type of the opened ports.

Please click the **Apply** button to save the configuration.

**PORT TRIGGERING**

Remaining number of entries that can be configured :32

Use Interface : pppoe\_atm0/ppp0

Application Name :  
 Select an application : (Click to select)  
 Custom application :

Schedule : Always [View Available Schedules](#)

Trigger Port Start	Trigger Port End	Trigger Protocol	Open Port Start	Open Port End	Open Protocol
		TCP			TCP
		TCP			TCP
		TCP			TCP
		TCP			TCP
		TCP			TCP
		TCP			TCP
		TCP			TCP
		TCP			TCP
		TCP			TCP

Apply Cancel



# DMZ

The DSL Router will forward IP packets from the WAN that do not belong to any of the applications configured in the Port Forwarding table to the DMZ host computer

To access **DMZ** setting windows, click on the PORT TRIGGERING button in the **ADVANCED** tab

## DMZ SETTING

Please type the DMZ client IP on the DMZ IP Address.

## APPLICATION LEVEL GATEWAY (ALG) CONFIGURATION

Please check with ALG to enable.

The screenshot shows the D-Link DSL-2750B web interface. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, and STATUS. The left sidebar lists various configuration options, with DMZ highlighted. The main content area is divided into sections:

- DEMILITARIZED ZONE:** Contains instructions: "The DSL Router will forward IP packets from the WAN that do not belong to any of the applications configured in the Port Forwarding table to the DMZ host computer. Enter the computer's IP address and click 'Apply' to activate the DMZ host. Clear the IP address field and click 'Apply' to deactivate the DMZ host."
- DMZ HOST:** Features a text input field for "DMZ Host IP Address" with the value "192.168.1." and a range "[192.168.1.2 - 192.168.1.254]".
- APPLICATION LEVEL GATEWAY (ALG) CONFIGURATION:** A list of applications with checkboxes, all of which are checked:
  - PPTP :
  - IPSec (VPN Passthrough) :
  - RTSP (Online Video Streaming) :
  - Windows/MSN Messenger :
  - FTP :
  - H.323 (Video Conferencing) :
  - SIP :
  - Wake-On-LAN :
  - MMS :

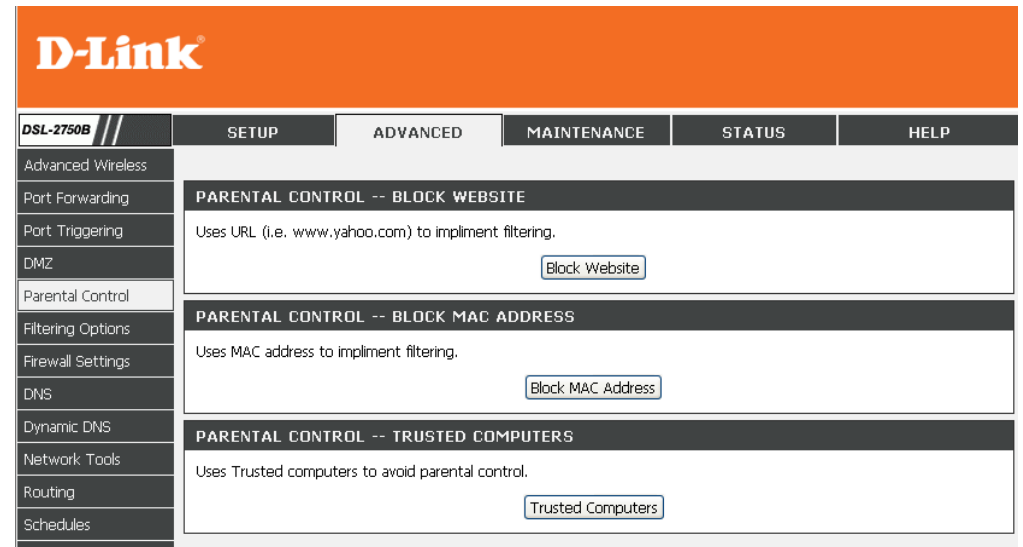
At the bottom right, there are "Apply" and "Cancel" buttons.

# PARENTAL CONTROL

Parental Control provides the restricting Internet access. Block Websites allows you to quickly create a list of all web sites that you wish to stop users from accessing. Block MAC Address restrictions Client or PCs connected to Router to access the Internet. Trusted Computers allowed exclude a range of IP not restricted by Block Website

To access **PARENTAL CONTROL** setting windows, click on the **PARENTAL CONTROL** button in the **ADVANCED** tab

**PARENTAL CONTROL** divided into **Block Website**, **Block Address** and **Trusted computer**.



## BLOCK WEBSITE

Press **Add / Edit / Delete** button and type the website URL which you want to block on the Website.

Schedule set the day and time to block.

After setting, please click **Apply** button and then it will show in list.

## BLOCK MAC ADDRESS

Press **Add / Edit / Delete** button and type the MAC Address of LAN device which you want to block

Schedule set the day and time to block.

After setting, please click **Apply** button and then it will show in list.

The screenshot displays three configuration panels in a vertical stack:

- BLOCK WEBSITE (Top Panel):** Features a table with two columns: 'URL' and 'Schedule Rule'. Below the table are three buttons: 'Add', 'Edit', and 'Delete'.
- BLOCK WEBSITE (Middle Panel):** A form for adding a new entry. It includes a 'URL' text input field, a 'Schedule' dropdown menu currently set to 'Always', and a 'View Schedule Details' link. At the bottom are 'Apply' and 'Cancel' buttons.
- BLOCK MAC ADDRESS (Bottom Panel):** Features a table with three columns: 'Username', 'MAC', and 'Schedule Rule'. Below the table are two buttons: 'Add' and 'Edit'.
- TIME OF DAY RESTRICTION (Bottom Panel):** A form for configuring time-based restrictions. It includes a 'User Name' text input field, two radio button options: 'Browser's MAC Address' (selected) with a text input showing '00:1b:11:b5:82:1b', and 'Other MAC Address: (xx:xx:xx:xx:xx:xx)' with an empty text input. It also has a 'Blocking on Schedule' dropdown set to 'Always' and a 'View Schedule Details' link. At the bottom are 'Apply' and 'Cancel' buttons.

### Trusted COMPUTERS

Allowed excluded a range of IP not restricted by Block Website

**TRUSTED USER IP RANGE**

**From:**

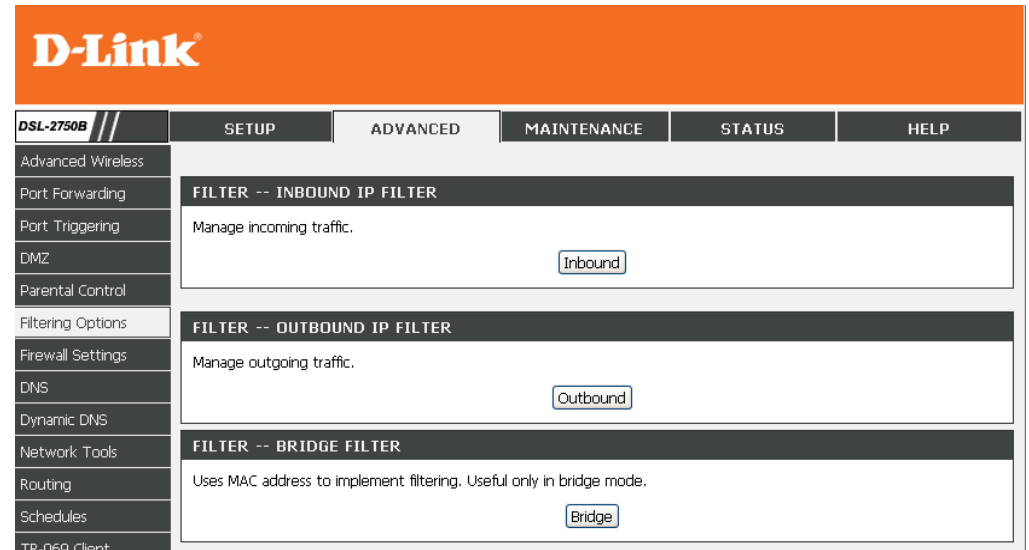
**To:**

# Filtering Option

By default, all outgoing IP traffic from the LAN is allowed. The Inbound Filter allows you to create a filter rule to filter incoming IP traffic by specifying a filter name and at least one condition below. The Outbound Filter allows you to create a filter rule to block outgoing IP traffic by specifying a filter name and at least one condition below. All of the specified conditions in this filter rule must be satisfied for the rule to take effect.

To access Filter Option setting windows, click on the **Filtering Option** button in the **ADVANCED** tab

**Filtering Option** divided into **Inbound IP Filter**, **Outbound IP Filter** and **Bridge Filter**.



## INBOUND IP FILTER

Press **Add / Edit / Delete** button to active inbound filter

Type the filter name on the **Filter Name**.

Choose ICMP, TCP/UDP, TCP or UDP on the **Protocol**.

Type **Source IP address**, **Source Subnet Mask** and **Source Port**(port or port::port means from which port to which port)

Type **Destination IP address**, **Destination Subnet Mask** and **Destination Port**(port or port::port means from which port to which port)

Set the schedule on the **Schedule**, Always or never, or View Available Schedules

Please click **Apply** button to add the policy in the list.

**ACTIVE INBOUND FILTER**

Name	VPI/VCI	Protocol	Source Address / Mask	Source Port	Dest. Address / Mask	Dest. Port	Schedule Rule

**INBOUND IP FILTERING**

**Filter Name :**

**Protocol :** (Click to select) ▾

**Source IP Type :** Single IP ▾

**Source IP address :**

**Source Subnet Mask :**

**Source Port :**  (port or port:port)

**Destination IP Type :** Single IP ▾

**Destination IP address :**

**Destination Subnet Mask :**

**Destination Port :**  (port or port:port)

**Schedule :** Always ▾ [View Available Schedules](#)

**WAN Interfaces (Configured in Routing mode and with firewall enabled only)**  
 Select at least one or multiple WAN interfaces displayed below to apply this rule.

Select All

br0/br0

## OUTBOUND IP FILTER

Press **Add / Edit / Delete** button to active inbound filter

Type the filter name on the **Filter Name**.

Choose ICMP, TCP/UDP, TCP or UDP on the **Protocol**.

Type **Source IP address**, **Source Subnet Mask** and **Source Port**(port or port::port means from which port to which port)

Type **Destination IP address**, **Destination Subnet Mask** and **Destination Port**(port or port::port means from which port to which port)

Set the schedule on the **Schedule**, Always or never, or View Available Schedules

Please click **Apply** button to add the policy in the list.

The screenshot displays the 'ACTIVE OUTBOUND FILTER' section at the top, which contains a table with the following columns: Name, Protocol, Source Address / Mask, Source Port, Dest. Address / Mask, Dest. Port, and Schedule Rule. Below the table are 'Add', 'Edit', and 'Delete' buttons.

The 'OUTBOUND IP FILTERING' section below contains the following configuration fields:

- Filter Name :
- Protocol : (Click to select)
- Source IP Type : Single IP
- Source IP address :
- Source Subnet Mask :
- Source Port :  (port or port:port)
- Destination IP Type : Single IP
- Destination IP address :
- Destination Subnet Mask :
- Destination Port :  (port or port:port)
- Schedule : Always  [View Available Schedules](#)

At the bottom of the configuration form are 'Apply' and 'Cancel' buttons.

## BRIDGE FILTERING

Press **Add / Edit / Delete** button to active inbound filter

Type the filter name on the **Filter Name**.

Choose ICMP, TCP/UDP, TCP or UDP on the **Protocol**.

Type **Destination MAC Address** and **Source MAC address**,

**Select Frame Direction**, LAN <=>WAN or WAN => LAN or LAN => WAN

Set the schedule on the **Schedule**, Always or never, or View Available Schedules

Please click **Apply** button to add the policy in the list.

**BRIDGE FILTERING POLICY (CONFIGURED IN BRIDGE MODE ONLY)**

FORWARD: **ALLOW** all packets but **DENY** those matching any of specific rules listed

BLOCKED: **DENY** all packets but **ALLOW** those matching any of specific rules listed

Bridge Interface	Policy
------------------	--------

[Change Policy](#) [Cancel](#)

**BRIDGE FILTER SETUP**

Name	VPI/VCI	Protocol	Destination MAC	Source MAC	Frame Direction	Schedule Rule
------	---------	----------	-----------------	------------	-----------------	---------------

[Add](#) [Edit](#) [Delete](#)

**ADD BRIDGE FILTER**

Filter Name :

Protocol Type :

Destination MAC Address :

Source MAC Address :

Frame Direction :

Schedule:  [View Schedule Details](#)

WAN Interfaces (Configured in Bridge mode only)

Select All

[Apply](#) [Cancel](#)



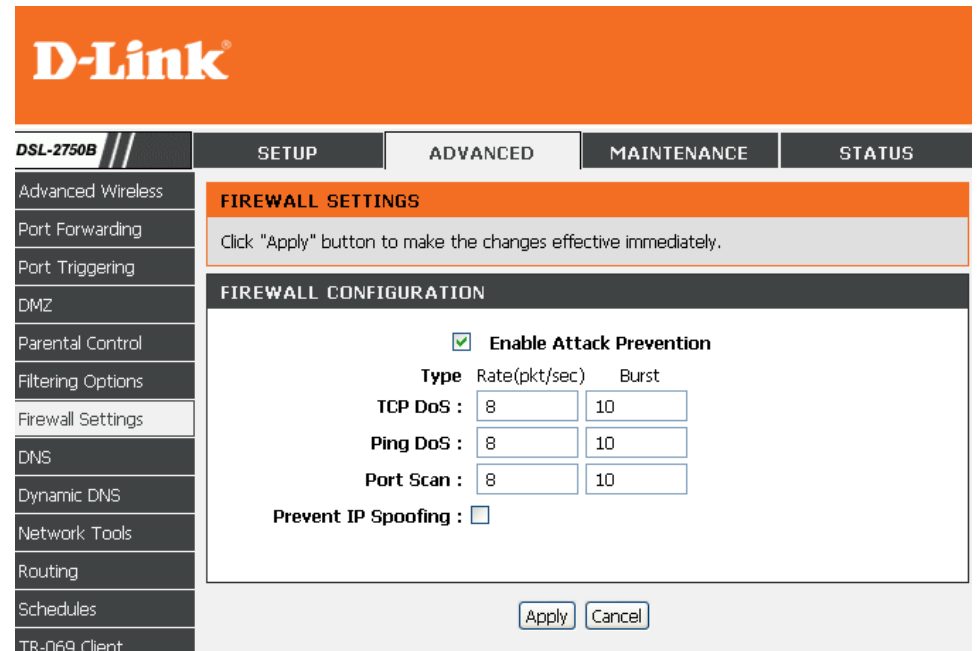
# FIREWALL SETTING

The router already provides a simple firewall by virtue of the way NAT works. By default NAT does not respond to unsolicited incoming requests on any port, thereby making your WAN invisible to Internet cyber attackers.

To access Firewall setting windows, click on the **Firewall Setting** button in the **ADVANCED** tab

## FIREWALL CONFIGURATION

Check **Enable Attack Prevention** box to enable firewall. And then default value will shows in **TCP DoS**, **Ping DoS** and **Port Scan**.



# DNS SETUP

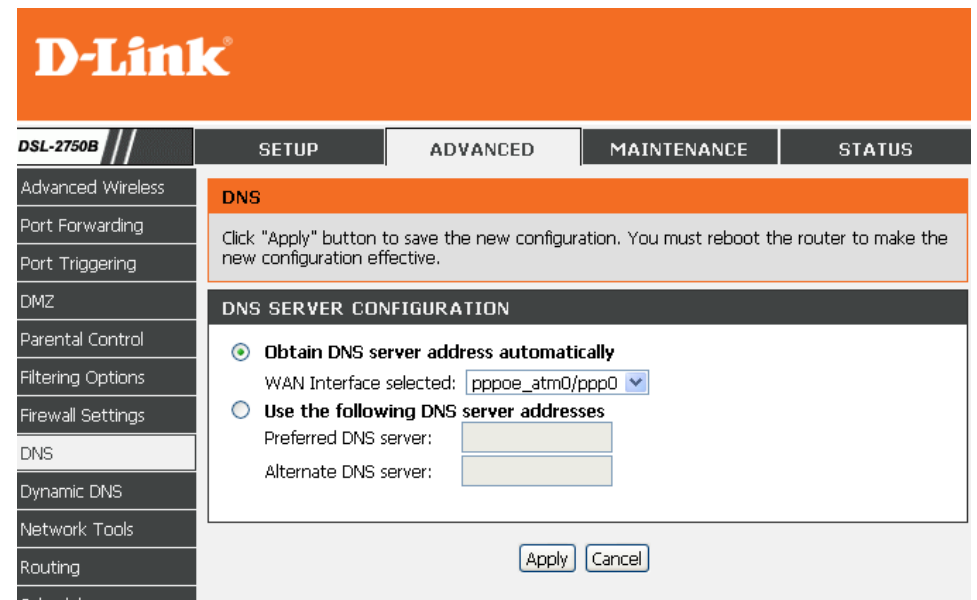
The **DNS** is used to resolve the DNS name to IPs. You can type or get automatically.

To access the **DNS** setting window, click on the **DNS** button under the **ADVANCED** tab.

## DNS SERVER CONFIGURATION

If you are using the Router for DHCP service on the LAN and are using DNS servers on the ISP's network, check **Obtain DNS server address automatically** box.

If you have DNS IP addresses provided by your ISP, enter these IP addresses in the available entry fields for the **Primary DNS Server** and the **Secondary DNS Server**.



The screenshot displays the D-Link DSL-2750B web interface. The top navigation bar includes the D-Link logo and tabs for SETUP, ADVANCED, MAINTENANCE, and STATUS. The left sidebar lists various configuration options, with 'DNS' highlighted. The main content area is titled 'DNS SERVER CONFIGURATION' and contains the following elements:

- A warning message: "Click 'Apply' button to save the new configuration. You must reboot the router to make the new configuration effective."
- Two radio button options:
  - Obtain DNS server address automatically**
  - Use the following DNS server addresses**
- Under the second option, there are three input fields:
  - WAN Interface selected:  (dropdown menu)
  - Preferred DNS server:
  - Alternate DNS server:
- At the bottom right, there are 'Apply' and 'Cancel' buttons.

# Dynamic DNS

The **Dynamic DNS** feature allows you to host a server (Web, FTP, Game Server, etc...) using a domain name that you have purchased (for example: www.whateveryournameis.com) with your dynamically assigned IP address. Most broadband Internet Service Providers assign dynamic (changing) IP addresses. Using a DDNS service provider, your friends can enter your host name to connect to your game server and your friends don't mind what your IP address is, and then just type the DDNS name to reach. You can use the D\_Link DDNS server, <https://www.dlinkddns.com> to have a free DDNS.

To access the **Dynamic DNS** setting window, click on the **Dynamic DNS** button under the **ADVANCED** tab.

## DDNS CONFIGURATION

Press **Add / Edit / Delete** button to modify your D-DNS list.

Choose which DDNS web site to use on the **D-DNS provider**.

Type which Host name which you registered with your DDNS service provider. on the **Host Name**.

Please choose which interface name to use on the **Interface**.

Type the username/password on the **username/password** for your DDNS account.

After configure the DNS settings as desired, click on the **Apply** button to apply settings.

**D-Link**

DSL-2750B //

SETUP    ADVANCED    MAINTENANCE    STATUS

Advanced Wireless  
Port Forwarding  
Port Triggering  
DMZ  
Parental Control  
Filtering Options  
Firewall Settings  
DNS  
Dynamic DNS  
Network Tools  
Routing  
Schedules  
TR-069 Client  
Wi-Fi Protected Setup  
Budget Quota  
Power Management  
IPv6 Firewall  
IPv6 Routing  
Logout

**DDNS**

This page allows you to add a Dynamic DNS address.

The Dynamic DNS service allows you to alias a dynamic IP address to a static hostname in any of the many domains, allowing your DSL router to be more easily accessed from various locations on the Internet.

Choose Add or Remove to configure Dynamic DNS.

**DYNAMIC DNS**

Hostname	Username	Service	Interface

Add Edit Delete

**ADD DYNAMIC DNS**

D-DNS provider : dlinkddns.com(Free)

Hostname :

Interface : pppoe\_atm0/ppp0

Username :

Password :

Apply Cancel

# NETWORK TOOL

The **NETWORK TOOL** feature allows you to configure **PORT MAPPING, IGMP, QoS, ADSL** and **SNMP**

To access the **NETWORK TOOL** setting window, click on the **NETWORK TOOL** button under the **ADVANCED** tab.

## Port Mapping

Port Mapping supports multiple port to PVC and bridging groups. Each group will perform as an independent network.

## IGMP

Transmission of identical content, such as multimedia, from a source to a number of recipients.

## QoS of Service

Allows you to manually configure special routes that your network might need.

## ADSL Settings

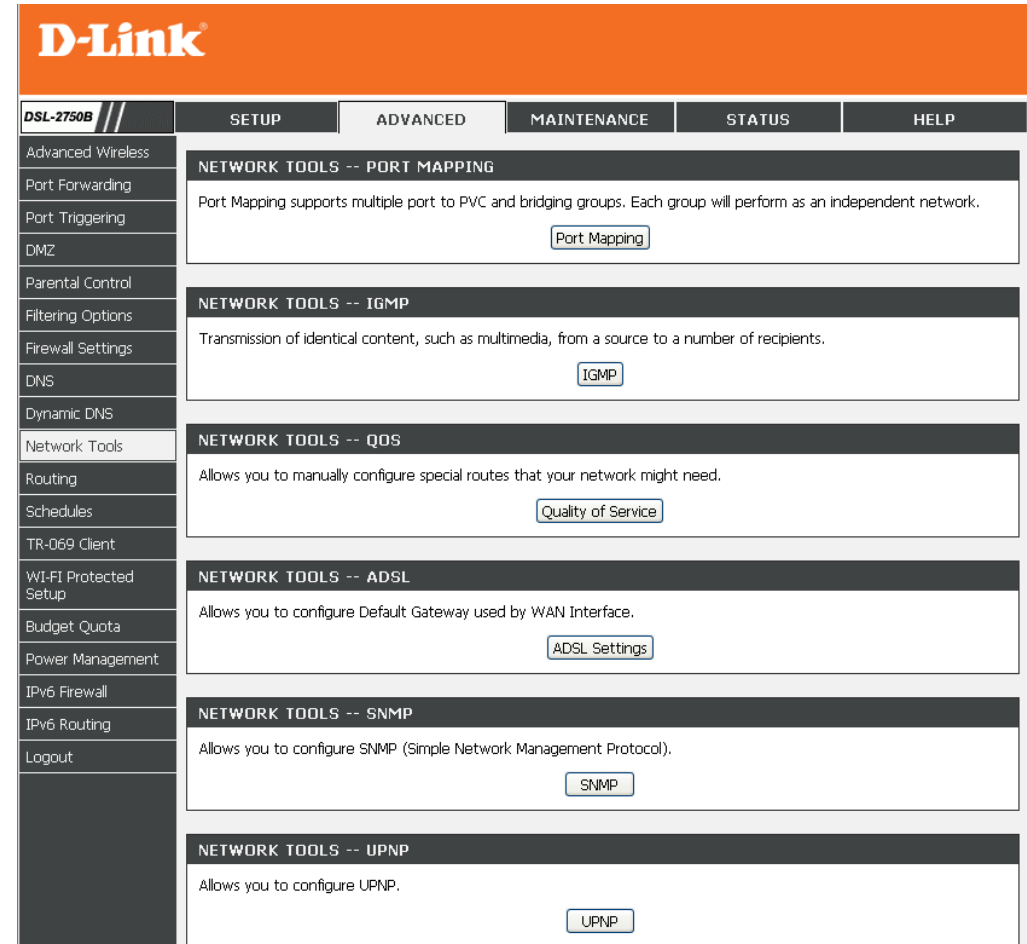
Allows you to configure Default Gateway used by WAN Interface.

## SNMP

Allows you to configure SNMP (Simple Network Management Protocol).

## UPNP

Allows you to configure UPnP.



## Port Mapping

Port Mapping supports multiple ports to PVC and bridging groups. Each group will perform as an independent network. To support this feature, you must create mapping groups with appropriate LAN and WAN interfaces using the Add button. The Remove button will remove the grouping and add the ungrouped interfaces to the Default group. Only the default group has IP interface.

Click **Add** button to add port mapping configuration

In **Add** page, please type the **Group name** which you want to assign in the GROUP Name.

Choose which wan interface you want to use in the **WAN Interface** used in the grouping

Choose which LAN Interface you want to use to join the group in the **Grouped LAN Interfaces** from the **Available LAN Interfaces**.

Click on the **Apply** button to save settings.

**PORT MAPPING SETTINGS**

This section is used to configure the port mapping to support VLAN.

Port Mapping supports multiple ports to PVC and bridging groups. Each group will perform as an independent network. To support this feature, you must create mapping groups with appropriate LAN and WAN interfaces using the Add button. The Remove button will remove the grouping and add the ungrouped interfaces to the Default group if Remove is checked. Only the default group has IP interface.

**PORT MAPPING**

Group Name	Interfaces	Remove	Edit
Default	WIRELESS1, lan1, lan2, lan3, ppp0		

**PORT MAPPING CONFIGURATION**

Group Name:

WAN Interface used in the grouping:

**Grouped LAN Interfaces**

**Available LAN Interfaces**

WIRELESS1  
lan1  
lan2  
lan3

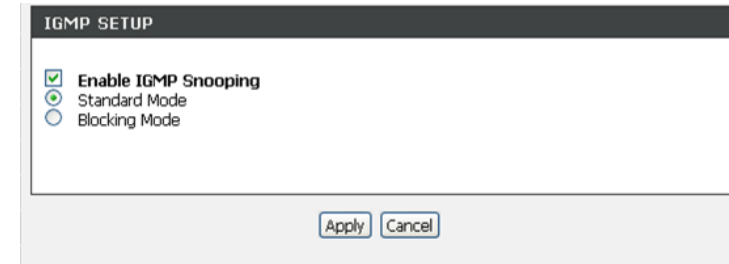
**Automatically Add Clients With the following DHCP Vendor IDs**

## IGMP

Transmission of identical content, such as multimedia, from a source to a number of recipients.

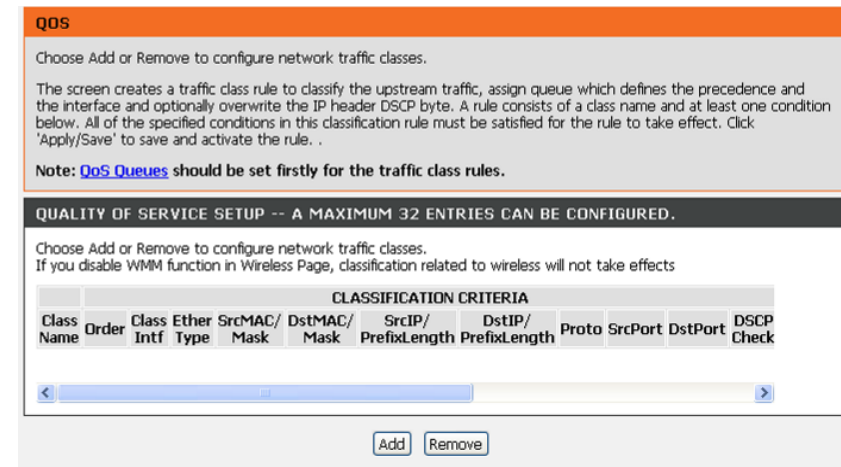
Please choose to enable the **IGMP Snooping** and **Standard Mode** or **Blocking Mode** to work.

Click on the **Apply** button to save settings.



## QoS

Quality of Service is a feature that allows you to allocate or guarantee the throughput or speed of Internet for certain computer.



## Section 3 - Configuration

In **Add** page, type the traffic class name in the **Traffic Class Name**.

If added more than one rules, you can select priority in the **Rule Order**.

Enable or Disable the rule in the **Rule Status**.

### Specify Classification Criteria:

Select **Class Interface** and **Ether Type** in the drop-down menu.

Type the **Source MAC Address**, **Source MAC Mask**, **Destination MAC Address** and **Destination MAC Mask**.

### Specify Classification Results:

Select **Assign Classification Queue**, **Mark Differentiated Service Code Point (DSCP)** and **Mark 802.1p priority** in the drop-down menu.

Type the **Tag VLAN ID [0-4094]**.

Click on the **Apply** button to save settings.

#### ADD 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/Save' to save and activate the rule.

Traffic Class Name:

Rule Order:

Rule Status:

#### Specify Classification Criteria

A blank criterion indicates it is not used for classification.

Class Interface:

Ether Type:

Source MAC Address:

Source MAC Mask:

Destination MAC Address:

Destination MAC Mask:

#### 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]:

## DSL Settings

The DSL settings page contains a modulation and capability section to be specified by your ISP. Consult your ISP to select the correct settings for each. Then click on Apply if you finish or click on Advanced Settings if you want to configure more

## SNMP

Simple Network Management Protocol (SNMP) that provides a means to monitor status and performance as well as set configuration parameters. It enables a management station to configure, monitor and receive trap messages from network devices.

Choose to enable the **Enable SNMP Agent**

Type the **Read Community**, **Set Community**, **System Name**, **System Location**, **System Contact** and **Trap Manager IP** which is the SNMP like MG-Soft installed PC's IP.

The screenshot shows the 'DSL' configuration page. At the top, there is an orange header with the text 'DSL'. Below the header, a grey box contains the text: 'This page allows you to configure the modems DSL modulation. Select the modulation below.' The main content area is titled 'DSL SETTINGS' and contains three sections: 'Select the modulation below.' with a list of checkboxes for G.Dmt Enabled, G.lite Enabled, T1.413 Enabled, ADSL2 Enabled, AnnexL Enabled, ADSL2+ Enabled, and AnnexM Enabled; 'Select the phone line pair below.' with radio buttons for Inner pair and Outer pair; and 'Capability' with checkboxes for Bitswap Enable and SRA Enable. At the bottom of the page, there are three buttons: 'Advanced Settings', 'Save/Apply', and 'Cancel'.

The screenshot shows the 'SNMP' configuration page. At the top, there is an orange header with the text 'SNMP'. Below the header, a grey box contains the text: 'Simple Network Management Protocol (SNMP) allows a management application to retrieve statistics and status from the SNMP agent in this device. Select the desired values and click "Apply" to configure the SNMP options.' The main content area is titled 'SNMP -- CONFIGURATION' and contains a list of configuration options: 'Enable SNMP Agent' (checked), 'Read Community' (public), 'Set Community' (private), 'System Name' (DLink), 'System Location' (unknown), 'System Contact' (unknown), and 'Trap Manager IP' (0.0.0.0). At the bottom of the page, there are two buttons: 'Apply' and 'Cancel'.



## UPNP

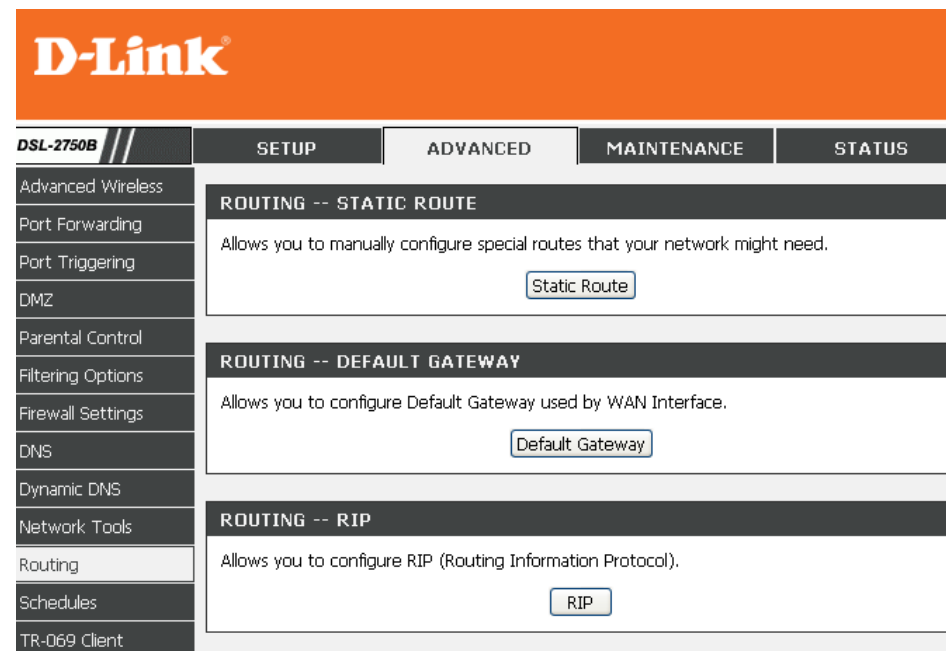
Choose to Enable/Disable Upnp Configuration

The screenshot shows a web configuration page for UPNP. At the top, there is an orange header with the text "UPNP". Below this, a grey box contains the text: "Universal Plug and Play (UPnP) supports peer-to-peer Plug and Play functionality for network devices." Underneath is a dark grey header with the text "UPNP -- CONFIGURATION". The main content area is white and contains the text "Enable UPNP support : ". At the bottom right of the form, there are two buttons: "Apply" and "Cancel".

# ROUTING SETUP

To access the **Routing** setting window, click on the **Routing** button under the **ADVANCED** tab.

Routing Setup divide into **STATIC ROUTE**, **DEFAULT GATEWAY** and **RIP**



## STATIC ROUTE

Please click the Add set a static routing policy in the list.

Please type the **Destination Network Address** and **Subnet Mask**.

Please select to type the Gateway IP or the interface to be the routing interface.

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

## DEFAULT GATEWAY

Please select **Use Interface** and press **Apply** button

**ROUTING**

Enter the destination network address, subnet mask, gateway AND/OR available WAN interface then click "Apply" to add the entry to the routing table.

**A maximum 32 entries can be configured**

**STATIC ROUTE**

Destination	Subnet Mask	Gateway	Interface
-------------	-------------	---------	-----------

**STATIC ROUTE ADD/EDIT**

Destination Network Address :

Subnet Mask :

Use Gateway IP Address :

Use Interface :

**ROUTING -- DEFAULT GATEWAY**

Select a preferred wan interface as the system default gateway. Click "Apply" button to save it.

**DEFAULT GATEWAY**

Use Interface :

Select a preferred wan interface as the system default IPv6 gateway.

Selected WAN Interface

## RIP Configuration

Please choose the **Version** and **Operation**, and then decide to Enable or not.

RIP CANNOT BE CONFIGURED on the WAN interface which has NAT enabled and un-ipoe.

**ROUTING -- RIP**

**NOTE:** RIP CANNOT BE CONFIGURED on the WAN interface which has NAT enabled and un-ipoe.

To activate RIP for the WAN Interface, select the desired RIP version and operation and place a check in the 'Enabled' checkbox. To stop RIP on the WAN Interface, uncheck the 'Enabled' checkbox. Click the 'Apply/Save' button to star/stop RIP and save the configuration.

**ROUTING -- RIP CONFIGURATION**

Interface	Version	Operation	Enabled
atm0	2	Passive	<input checked="" type="checkbox"/>
br0	2	Passive	<input checked="" type="checkbox"/>

Save/Apply

# SCHEDULE

**Schedule** allows you to create scheduling rules to be applied for your firewall. Maximum of 16 entries

To access the **SCHEDULE** window, click on the **Schedules** button under the **ADVANCED** tab.

Press **Add / Edit / Delete** button to modify your **SCHEDULE RULE** list.

Type **Name** for your schedule.

Select **Day(s)** or **ALL Day-24hrs** to active your firewall and type **Star Time** to **End Time**.

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

The screenshot shows the D-Link DSL-2750B web interface. The left sidebar contains a navigation menu with items like Advanced Wireless, Port Forwarding, DMZ, Parental Control, Filtering Options, Firewall Settings, DNS, Dynamic DNS, Network Tools, Routing, Schedules, TR-069 Client, WI-FI Protected Setup, Budget Quota, Power Management, IPv6 Firewall, and IPv6 Routing. The main content area has tabs for SETUP, ADVANCED, MAINTENANCE, and STATUS. The 'ADVANCED' tab is selected, and the 'SCHEDULE' section is active. The 'SCHEDULE' section includes a description: 'Schedule allows you to create scheduling rules to be applied for your firewall. Maximum of 16 entries.' Below this is a 'SCHEDULE RULE' table with columns for Rule Name, Sun, Mon, Tue, Wed, Thu, Fri, Sat, Start, and Stop. There are 'Add', 'Edit', and 'Delete' buttons below the table. The 'ADD SCHEDULE RULE' form has the following fields: Name (text input), Day(s) (radio buttons for All Week and Select Day(s), with checkboxes for Sun, Mon, Tue, Wed, Thu, Fri, Sat), All Day - 24 hrs (checkbox), Start Time (hour:minute, 24 hour time), and End Time (hour:minute, 24 hour time). There are 'Apply' and 'Cancel' buttons at the bottom of the form.

# TR-069 Client

TR-069 is a WAN management protocol which allows your ISP to perform monitoring, configuration and firmware upgrade on your router remotely.

To access the **TR-069 Client** Configuration window, click on the **TR-069 Client** button under the **ADVANCED** tab.

## TR-069 CLIENT

**Inform:** Select to **Enable** or **Disable** TR-069 client functionality.

**Inform Interval:** Interval (seconds) between two Inform messages.

**ACS URL:** Enter the URL of your ISP's ACS

**ACS User Name:** Enter the authentication user name

**ACS Password:** Enter the authentication password

**WAN Interface used by TR-069 client:** Select your WAN interface.

**Display SOAP message on serial consoles:** Select **Disable** or

**Enable** to display SOAP message on console

**Connection Request Authentication:** Enable authentication for user connection

**Connection Request User Name:** Enter the authentication user name for the ACS to login

**Connection Request Password:** Enter the authentication password for the ACS to login

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DSL-2750B //

SETUP ADVANCED MAINTENANCE STATUS

**TR-069 CLIENT**

WAN Management Protocol (TR-069) allows a Auto-Configuration Server (ACS) to perform auto-configuration, provision, collection, and diagnostics to this device.  
Select the desired values and click "Apply" to configure the TR-069 client options.

**TR-069 CLIENT -- CONFIGURATION**

Inform  Disable  Enable

Inform Interval (sec):

ACS URL:

ACS User Name:

ACS Password:

WAN Interface used by TR-069 client:

Display SOAP messages on serial console  Disable  Enable

Connection Request Authentication

Connection Request User Name:

Connection Request Password:

Connection Request URL:

GetRPCMethods Apply Cancel

# WI-FI PROTECTED SETUP

**Wi-Fi Protected Setup** is used to easily add devices to a network using a PIN or button press. Devices must support Wi-Fi Protected Setup in order to be configured by this method.

To access the **WI-FI PROTECTED SETUP** window, click on the **WI-FI Protected Setup** button under the **ADVANCED** tab.

## Wi-Fi Protected Setup

Please select to **Enable** or **Lock** Wireless Security Settings

**PIN Settings:** Choose to click the **Reset PIN to Default** button or **Generate New PIN** button to show the PIN on the Current PIN.

**ADD WIRELESS STATION:** Please click the **Add Wireless Device** with **WPS** button to set the WPS.



# BUDGET QUOTA

**Budget Quota** can be used to implement the limitation quota and other functions. You can limit the data transmission quota and time on WAN interface or LAN interface.

To access the **Budget Quota** window, click on the **Budget Quota** button under the **ADVANCED** tab.

## Budget Quota

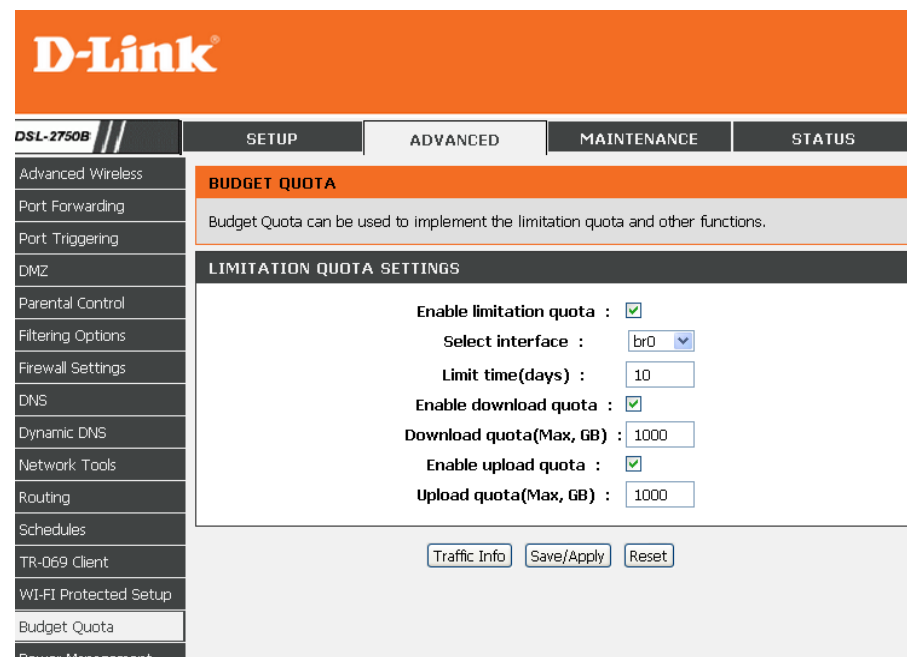
Please select to **Enable limitation Quota**

**Select interface** (br0, LAN1~LAN4 or WAN interface) to limit the data transmission quota.

Set **Limit time(days)**

Check **Enable Download quota** and set **Download quota(Max, GB)**

Check **Enable Upload quota** and set **Upload quota(Max, GB)**





# POWER MANAGEMENT

This feature allows you to control of Hardware modules to evaluate power consumption. Use the control buttons to select the desired option, click Apply and check the status response.

To access the **POWER Management** setting window, click on the **POWER Management** button in the **ADVANCE** table

## POWER MANGEMENT

### mips cpu clock:

You can choose Auto, 1/8 of full speed ASYNC, 1/4 of full speed ASYNC, 1/2 of full speed ASYNC, Full speed ASYNC, Full speed SYNC and it will show on the Status. It can control the CPU's handling data speed.

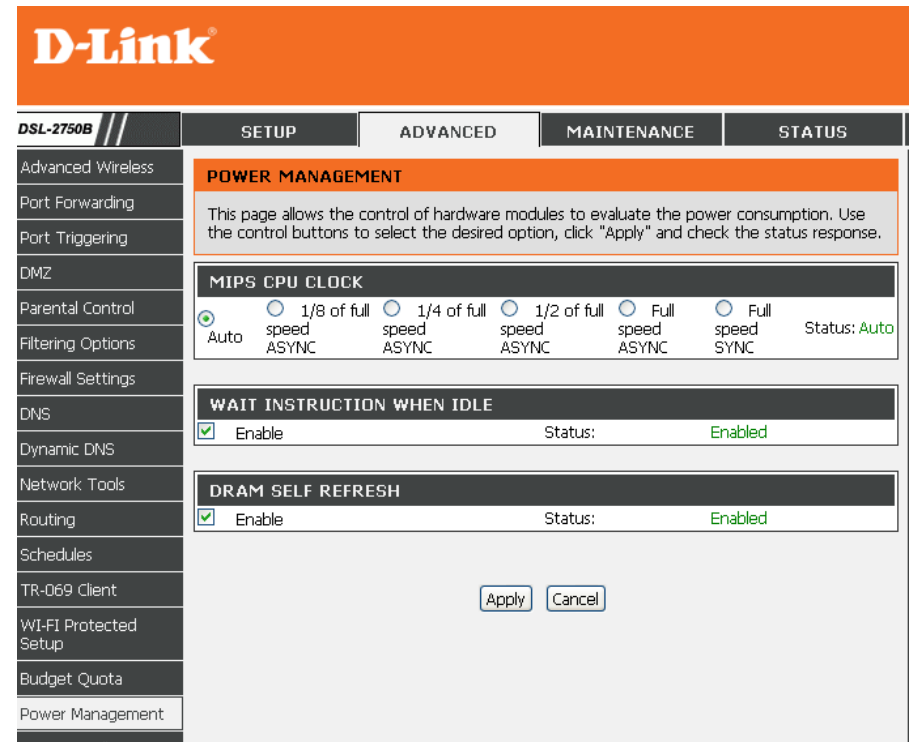
### Wait instruction when Idle:

The CPU can wait for the coming data to handle or idle. Please Enable the feature if necessary.

### DRAM Self Refresh:

DRAM can clear any non-processing tasks automatically. Please Enable the feature if necessary.

Please click the Apply button to save the settings.



# IPV6 FIREWALL

The Firewall settings section is an advance feature used to allow or deny traffic from passing through the device. It works in the same way as ip filters with additional settings. You can create more detail rules for the device.

To access the **IPv6 Firewall** setting window, click on the **IPv6 Firewall** button in the **ADVANCE** table

## ACTIVE FIREWALL RULES

Click **Add** button to add Firewall Rules.

## IPV6 FIREWALL RULE

Type **Rule Name**, select **Schedule** (Schedule Rule can be set as following).

Type **Source Address Range**, select **Use Interface** and **Protocol** in drop-down menu.

Type **Dest Address Range**, **Dest Port Range** and select **Use Interface** in drop-down menu.

The screenshot shows the D-Link DSL-2750B web interface. The left sidebar contains a navigation menu with items like Advanced Wireless, Port Forwarding, DMZ, Parental Control, Filtering Options, Firewall Settings, DNS, Dynamic DNS, Network Tools, Routing, Schedules, TR-069 Client, WI-FI Protected Setup, Budget Quota, Power Management, IPv6 Firewall (highlighted), IPv6 Routing, and Logout. The main content area has tabs for SETUP, ADVANCED, MAINTENANCE, and STATUS. The IPv6 Firewall section is active, displaying a table of active rules and a form to create a new rule.

Name	Src. Addr Range	Use Interface	Src Protocol	Dest. Addr Range	Use Interface	Dest. Port	Schedule Rule
<input type="button" value="Add"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>							

**IPV6 FIREWALL RULE**

Rule Name :

Schedule :  [View Available Schedules](#)

Source Address Range :

Use Interface :

Protocol :

Dest Address Range :

Dest Port Range :  ~

Use Interface :

## SCHEDULE RULE

Click **Add** button to add **Rules**.

## ADD SCHEDULE RULE

Type **Name** for this rule and select **Day(s)**, you can sele **All Week** or **select Day(s)**.

Check **All Day-24hr** or set **Start time** to **End Time**

The screenshot shows a web-based configuration interface for a schedule rule. At the top, there is a header bar labeled "SCHEDULE RULE". Below this header is a table with columns for "Rule Name", "Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat", "Start", and "Stop". Below the table are three buttons: "Add", "Edit", and "Delete". Below these buttons is another header bar labeled "ADD SCHEDULE RULE". Under this header, there is a "Name" field with a text input box. Below the name field are two radio button options: "All Week" and "Select Day(s)". The "Select Day(s)" option is currently selected. Below these options are seven checkboxes for the days of the week: Sun, Mon, Tue, Wed, Thu, Fri, and Sat. Below the day checkboxes is an "All Day - 24 hrs" checkbox. Below this are two time input fields: "Start Time" and "End Time", each consisting of two boxes for hours and minutes, followed by the text "(hour:minute, 24 hour time)". At the bottom of the form are two buttons: "Apply" and "Cancel".

# IPV6 ROUTING

This Routing page allows you to specify custom routes that determine how data is moved around your network. A maximum 20 entries can be configured

To access the **IPv6 Routing** setting window, click on the **IPv6 Routing** button in the **ADVANCE** table

## STATIC IPV6 ROUTES

Click **Add** button to add **Rules**.

## STATIC ROUTE ADD/EDIT

Type **Rule/Name** for this rule.

Type **Destination IPv6/Prefix**, **Metric** and **Gate way IP Address**.

Select **Use Interface** in drop-down menu.

**D-Link**

DSL-2750B

SETUP ADVANCED MAINTENANCE STATUS

**ROUTING**

This Routing page allows you to specify custom routes that determine how data is moved around your network.

**A maximum 20 entries can be configured**

**STATIC IPV6 ROUTES**

Name	Destination Addr/Prefix Length	Metric	Gateway Addr	Interface
<input type="button" value="Add"/> <input type="button" value="Edit"/> <input type="button" value="Remove"/>				

**STATIC ROUTE ADD/EDIT**

Rule Name :

Destination IPv6/Prefix :  /

Metric :

Gateway IP Address :

Use Interface: WAN

# LOGOUT

The **LOGOUT** page enables you to logout of your router configuration and closes the browser.

To access the **LOGOUT** setting window, click on the **Logout** button in the **SETUP** tab

## LOGOUT

Click on the **Logout** button to logout of the router configuration settings and close the browser.



# MAINTENANCE

Click on the **MAINTENANCE** tab to reveal the window buttons for various functions located in this directory.

# SYSTEM

To access the **SYSTEM** setting window, click on the **System** button under the **MAINTENANCE** tab

**REBOOT:** click **Reboot** button to reboot the router

**BACKUP SETTINGS:** click **Backup Settings** button to backup now setting of router.

**UPDATE SETTINGS:** click **Update Settings** and select a \*.conf file which pre backup setting

**RESTORE DEFAULT SETTING:** If necessary, please click the **Restore Default Setting** button to have the default settings.



# FIRMWARE UPDATE

Use the **FIRMWARE UPGRADE** window to load the latest firmware for the device. Note that the device configuration settings may return to the factory default settings, so make sure you first save the configuration settings with the **SAVE/RESTORE SETTINGS** window described above.

To access the **FIRMWARE UPGRADE** setting window, click on the **Firmware Update** button under the **MAINTENANCE** tab.

## FIRMWARE UPDATE

To upgrade firmware, click on the **Choose File** button to search for the firmware file and then click the **Update Firmware** button to begin copying the file. The Router will load the file and restart automatically.

**D-Link**

DSL-2750B //

SETUP    ADVANCED    MAINTENANCE    STATUS

System  
Firmware Update  
Access Controls  
Diagnostics  
Ping Test  
System Log  
Logout

**FIRMWARE**

**Step 1:** Obtain an updated firmware 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 Firmware" button once to upload the new image file.

NOTE: The update process takes about 2 minutes to complete, and your DSL Router will reboot. Please DO NOT power off your router before the update is complete.

**FIRMWARE UPDATE**

Firmware Date: Mar 01 2012  
Board ID: AW4339U  
Software Version: AU\_2.01  
Bootloader (CFE) Version: 1.0.37-106.5  
Wireless Driver Version: CR-LSDK-1.4.0.112

Firmware File Name:

# ACCESS CONTROL

To access the **ACCESS CONTROL** setting window, click on the **ACCESS CONTROL** button in the **MAINTENANCE** directory.

## ADMIN

Manage DSL Router user accounts, click **Admin** button to access **ADMINISTRATOR SETTING** page.

## SERVICES

A Service Control List ("SCL") enables or disables services from being used. Click **Services** button to access **SERVICES CONTROL** services page.

## IP ADDRESS

Permits access to local management services. Click **IP Address** button to access **IP ADDRESS** page.

## ADMINISTRATOR SETTING

The Admin option is used to set a password for access to the Web-based management.

### Admin

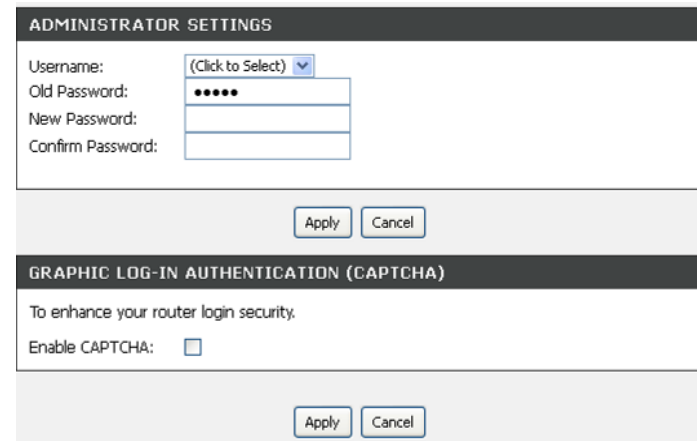
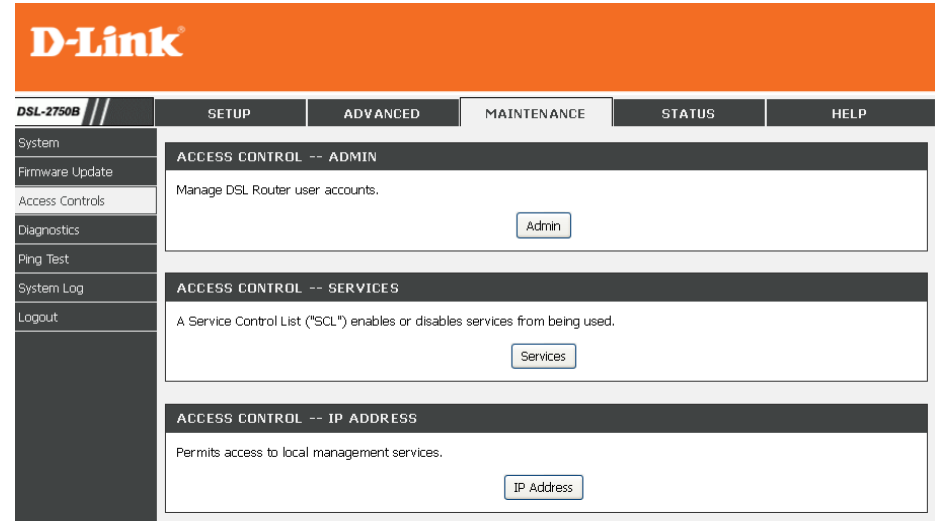
Enter a password for the user "admin", who will have full access to the Web-based management interface.

### Support

Allows an ISP technician to access your DSL Router for maintenance and to run diagnostics.

### User

Allows viewing configuration settings and statistics, as well as updating the router's firmware.





## SERVICES CONTROL

### Services

Allows access to the router via FTP, HTTP, ICMP, SNMP, SSH, TELNET, and TFTP.

### LAN

Accesses the DSL router from the local network (LAN) side.

### WAN

Accesses the DSL router from the ISP side.

Click **Apply** button to save the settings.

### IP Address

When enabled allows the filtering of IP address that can access the router. This works in conjunction with **Services**

Choose to enable or disable the **Access Control Mode**

In Add page, type the **IP address** you want to allow to access the DSL router.

Click the **Apply** button to save the settings.

Service	LAN	WAN	Remote WAN Port
FTP	<input type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	21
HTTP	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	80
ICMP	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	
SNMP	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	161
SSH	<input type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	22
TELNET	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	23
TFTP	<input type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	69

Apply Cancel

Access Control Mode  Disabled  Enabled

IP Address Select

Add Edit Delete

IP ADDRESS

IP Address:

Apply Cancel

# DIAGNOSTICS

Your router is capable of testing your DSL connection. The individual tests are listed below. If a test displays a fail status, click "Return Diagnostics Tests" at the bottom of this page to make sure fail status is consistent. If the test continues to fail, click "Help" and follow the troubleshooting procedures.

To access the **Diagnostics** setting window, click on the **Diagnostics** button under the **MAINTENANCE** tab.

### Virtual Circuit:

Select a WAN interface and click **Rerun Diagnostics Tests**.

### TEST THE CONNECTION TO YOUR LOCAL NETWORK:

There are Test your LAN 0/ LAN 1/ LAN 2/ LAN 3 Connection, Test your Wireless Connection and Test ADSL Synchronization and they will show PASS or FAIL

### TEST THE CONNECTION TO YOUR INTERNET SERVICE PROVIDER

There are Ping ISP Default Gateway/ Primary DNS server and they will show PASS or FAIL

**D-Link**

DSL-2750B // SETUP ADVANCED MAINTENANCE STATUS

**DLINK PVC DIAGNOSTICS**

**Diagnostics**

Your modem is capable of testing your DSL connection. The individual tests are listed below. If a test displays a fail status, click "Help" and follow the troubleshooting procedures.

Virtual Circuit :

**TEST THE CONNECTION TO YOUR LOCAL NETWORK**

Test your lan1 Connection:	FAIL	<a href="#">Help</a>
Test your lan2 Connection:	PASS	<a href="#">Help</a>
Test your lan3 Connection:	FAIL	<a href="#">Help</a>
Test your lan4 Connection:	FAIL	<a href="#">Help</a>
Test your Wireless Connection:	PASS	<a href="#">Help</a>
Test ADSL Synchronization:	PASS	<a href="#">Help</a>

**TEST THE CONNECTION TO YOUR INTERNET SERVICE PROVIDER**

Ping default gateway:	PASS	<a href="#">Help</a>
Ping primary Domain Name Server:	PASS	<a href="#">Help</a>

# PING TEST

The tests on this page can be used to verify whether or not your router is working correctly. If you have rerun the tests and consulted the help file and you are still experiencing difficulties,

To access the **Ping test** setting window, click on the **Ping test Diagnostics** button under the **MAINTENANCE** tab.

## PING TEST

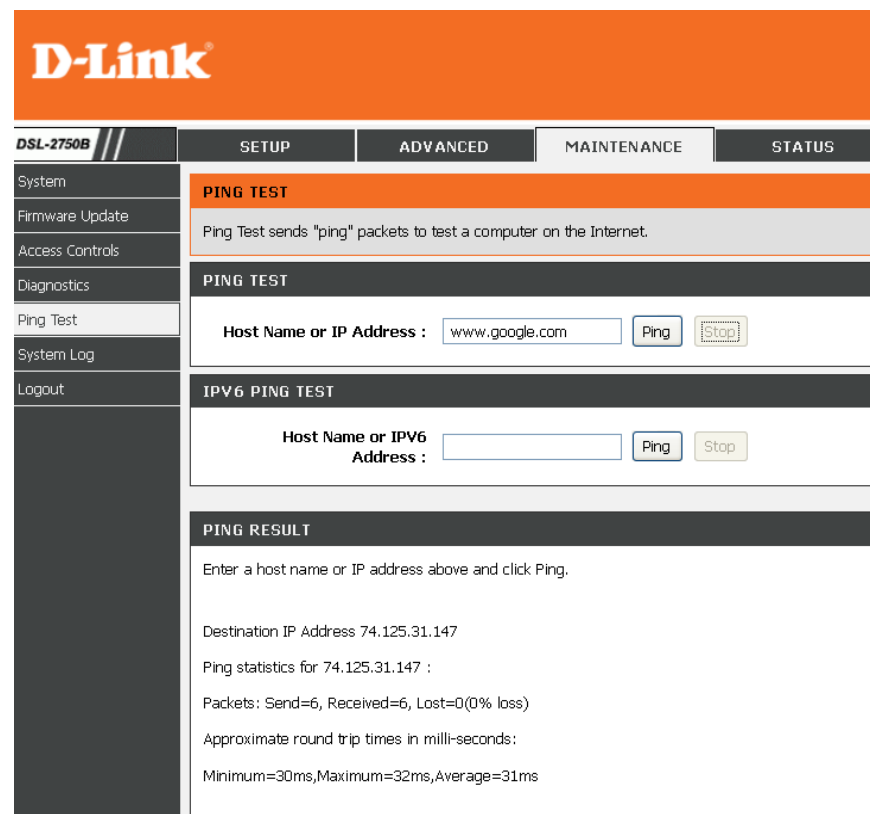
You can type **Host Name or IP Address** and click **Ping** button

## IPv6 PING TEST

You can type Host Name or IPv6 Address and click **Ping** button

## PING RESULT

When you click **Stop** button, the ping results will show in **PING RESULT** windows



# SYSTEM LOG

The system Log allows you to configure local, remote and email logging, and to view the logs that have been created.

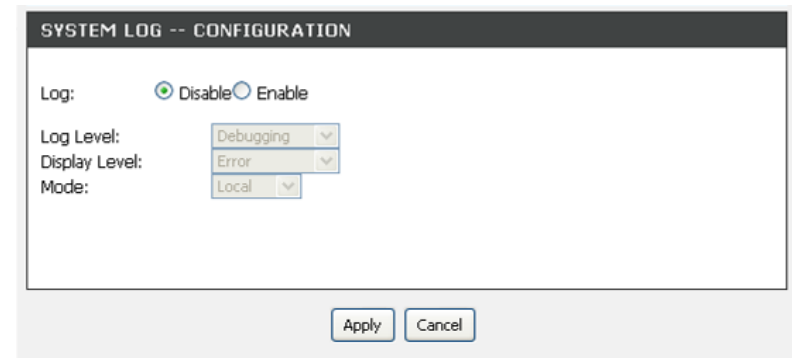
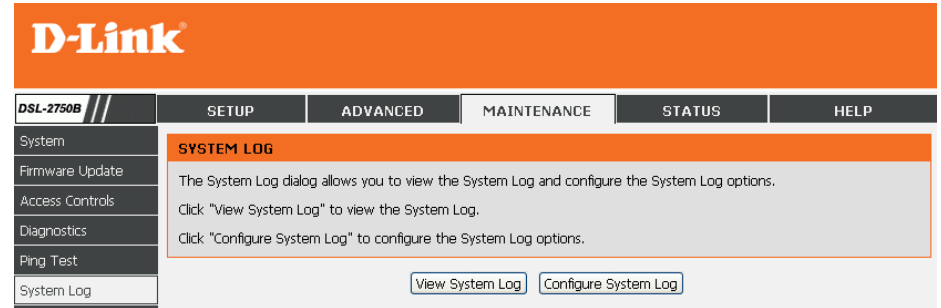
To access the **SYSTEM LOG** setting window, click on the **System Log** button under the **MAINTENANCE** tab.

You can click **View System** button to view the system log if you enabled **Log**.

Click **Configure System Log** button to configure the system log option.

Select **Enable** and then setting **Log Level**, **Display Level** and **Mode**.

If the selected mode is **Remote** or **Both**, events will be sent to the specified IP address and UDP port of the remote syslog server.



# STATUS

Click on the **STATUS** tab to reveal the window buttons for various functions located in this directory. The **DEVICE STATUS** window is the first item in the **STATUS** directory. Use these windows to view system information and monitor performance.

## DEVICE INFO

The **Device Info** page displays a summary overview of your router status, including: Device software version and summary of your Internet configuration (both wireless and Ethernet status).

To access the **DEVICE INFO** setting window, click on the **Device Info** button in the **STATUS** tab.

This window displays current **SYSTEM INFO**, **INTERNET INFO**, **WIRELESS INFO** and **LOCAL NETWORK INFO**.

The screenshot shows the D-Link DSL-2750B web interface. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, and STATUS. The left sidebar contains a menu with options: Device Info, Wireless Clients, DHCP Clients, Logs, Statistics, Route Info, IPv6 Status, IPv6 Routing Info, and Logout. The main content area is titled 'DEVICE INFORMATION' and contains the following sections:

**DEVICE INFORMATION**  
This information reflects the current status of your DSL connection.

**SYSTEM INFO**

Model Name:	DSL-2750B
Time and Date:	Thursday, January 1, 1970 00:03:14 AM
Firmware Version:	AU_2.01
Release Date:	2012/03/01

**INTERNET INFO**

Internet Connection:

IPv4 Connection Status:	CONNECTED
IPv4 Default Gateway:	ppp0
IPv4 Preferred DNS Server:	168.95.1.1
IPv4 Alternate DNS Server:	168.95.192.1

Interface	Description	Link Type	IGMP	QoS	Status	IP Address
ppp0	pppoe_atm0	PPPoE	Enabled	Disabled	Connected	10.67.15.82

**WIRELESS INFO**

MAC Address :	00:1A:2B:27:50:01
Status:	Enabled
Network Name (SSID):	D-Link DSL-2750B
Visibility:	Visible
Security Mode:	None

**LOCAL NETWORK INFO**

MAC Address :	00:1A:2B:27:50:00
IP Address:	192.168.1.1
Subnet Mask:	255.255.255.0
DHCP Server:	Enabled

### SYSTEM INFO

This window displays system information include Model Name, Time and Date, Firmware Version, Release Date.

SYSTEM INFO	
Model Name:	DSL-2750B
Time and Date:	Thursday, January 1, 1970 00:03:14 AM
Firmware Version:	AU_2.01
Release Date:	2012/03/01

### INTERNET INFO

This window displays WAN information including IP address, Mask, Default Gateway, Primary/Secondary DNS Server.

INTERNET INFO															
Internet Connection:	pppoe_atm0														
IPv4 Connection Status:	CONNECTED														
IPv4 Default Gateway:	ppp0														
IPv4 Preferred DNS Server:	168.95.1.1														
IPv4 Alternate DNS Server:	168.95.192.1														
<table border="1"> <thead> <tr> <th>Interface</th> <th>Description</th> <th>Link Type</th> <th>IGMP</th> <th>QoS</th> <th>Status</th> <th>IP Address</th> </tr> </thead> <tbody> <tr> <td>ppp0</td> <td>pppoe_atm0</td> <td>PPPoE</td> <td>Enabled</td> <td>Disabled</td> <td>Connected</td> <td>10.67.15.78</td> </tr> </tbody> </table>		Interface	Description	Link Type	IGMP	QoS	Status	IP Address	ppp0	pppoe_atm0	PPPoE	Enabled	Disabled	Connected	10.67.15.78
Interface	Description	Link Type	IGMP	QoS	Status	IP Address									
ppp0	pppoe_atm0	PPPoE	Enabled	Disabled	Connected	10.67.15.78									

### WIRELESS INFO

This window displays authenticated wireless stations and their status.

WIRELESS INFO	
MAC Address :	F0:7D:88:D9:0F:FC
Status:	Enabled
Network Name (SSID):	D-Link
Visibility:	Visible
Security Mode:	WPA/WPA2-Personal(TKIP OR AES)

### LOCAL NETWORK INFO

This window displays LAN information including MAC, IP address, Mask, and DHCP Server.

LOCAL NETWORK INFO	
MAC Address :	f0:7d:88:d9:0f:fb
IP Address:	192.168.1.1
Subnet Mask:	255.255.255.0
DHCP Server:	Enabled

# WIRELESS CLIENTS

This feature shows all the currently connected wireless and LAN computers or PCs.

To access the Wireless clients setting window, click on the **Wireless Clients** button in the **STATUS** tab.

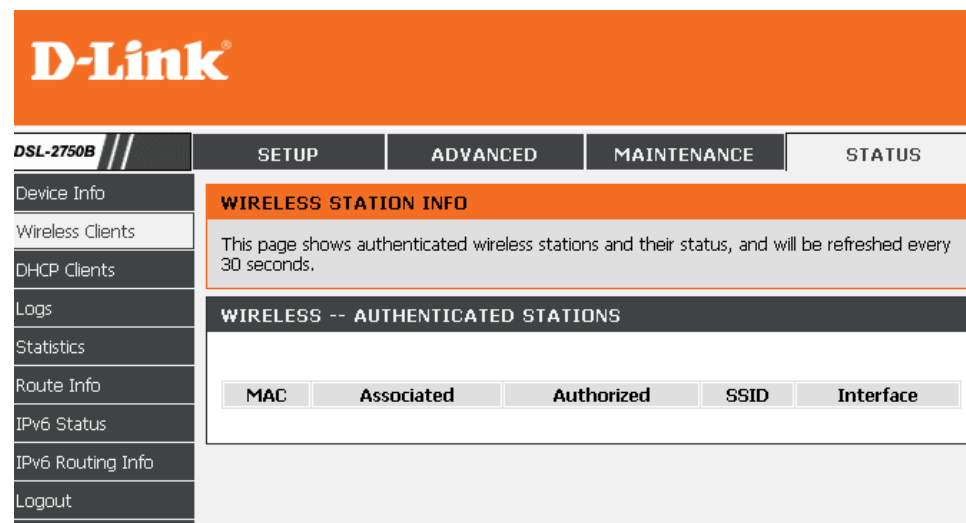
## CONNECTED WIRELESS CLIENTS

This window displays authenticated wireless stations and their status.

## CONNECTED LAN CLIENTS

This window displays all the entities which link to the LAN interface successfully.

You can choose to block which entities and click the **Block** button



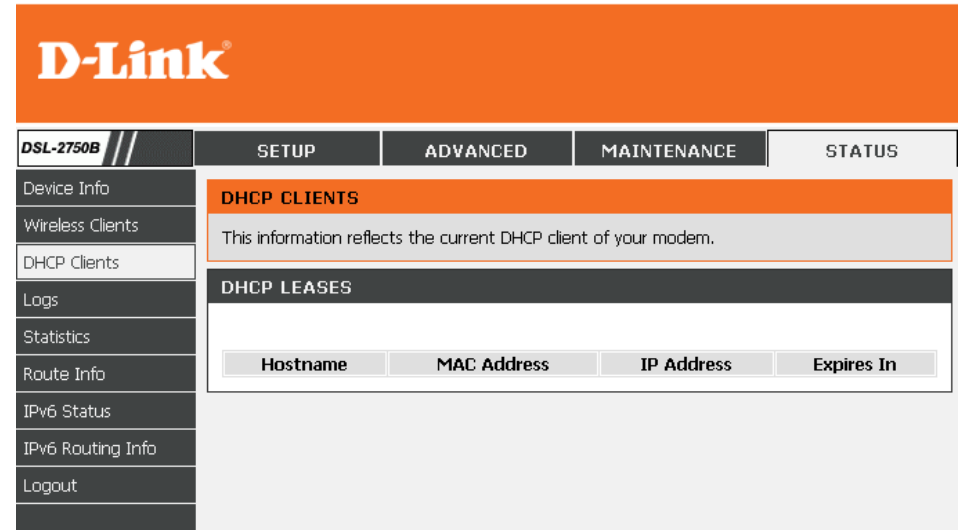
# DHCP CLIENT

This feature shows all the currently connected LAN computers or PCs.

To access the DHCP clients setting window, click on the **DHCP Clients** button in the **STATUS** tab.

## DHCP CLIENTS

This window displays all the entities which link to the LAN interface successfully.





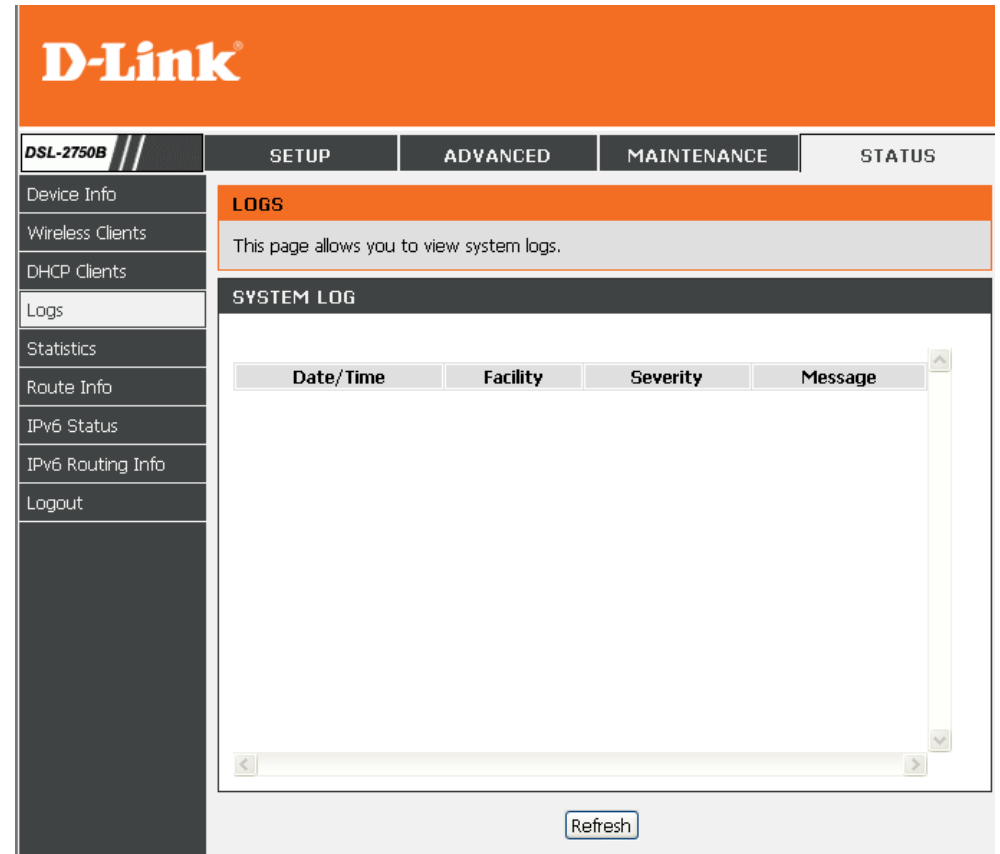
# LOGS

This feature shows all the system logs.

To access the **LOGS** window, click on the Logs button in the **STATUS** tab.

## LOGS

This window displays all the Logs. Click Refresh button to update new log.



# STATISTICS

This information reflects the current status of your router.

To access the **STATISTICS** window, click on the Logs button in the **STATISTICS** tab.

## LAN STATISTICS

This window displays all the **Receiver** and **Transmitted** packet status on the LAN interface.

## WAN STATISTICS

This window displays all the **Receiver** and **Transmitted** packet status on the WAN interface.

**D-Link**

DSL-2750B //

SETUP    ADVANCED    MAINTENANCE    STATUS

**STATISTICS**

This information reflects the current status of your DSL connection.

**LAN**

Interface	Received				Transmitted			
	Bytes	Pkts	Errs	Drops	Bytes	Pkts	Errs	Drops
lan1	0	0	0	0	0	0	0	0
lan2	564136	3223	0	0	2691273	3564	0	0
lan3	0	0	0	0	0	0	0	0
lan4	0	0	0	0	0	0	0	0

**WAN**

Interface	PVC	Protocol	Service Name	Received				Transmitted			
				Bytes	Pkts	Errs	Drops	Bytes	Pkts	Errs	Drops
ppp0	0/33	EoA	pppoe_atm0	586291	1179	0	0	275102	1157	0	0

## ADSL STATISTICS

This window displays all the **ADSL status**

You can click the **ADSL BER Test** button to test the ADSL connection.

You can click the **Reset Statistics** button to set all statistics to recount.

ADSL STATISTICS

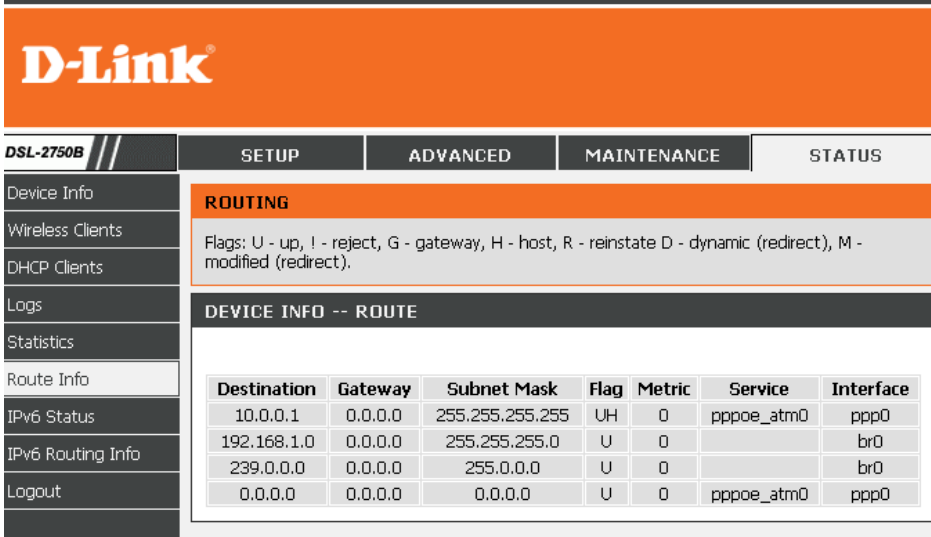
Mode:	ADSL_2plus	
Traffic Type:	ATM	
Status:	Up	
Link Power State:	L0	
	Downstream	Upstream
Line Coding(Trellis):	On	On
SNR Margin (0.1 dB):	67	65
Attenuation (0.1 dB):	0	5
Output Power (0.1 dBm):	94	93
Attainable Rate (Kbps):	27508	1335
	Path 0	
	Downstream	Upstream
Rate (Kbps):	27159	1233
MSGc (# of bytes in overhead channel message):	51	14
B (# of bytes in Mux Data Frame):	241	13
M (# of Mux Data Frames in FEC Data Frame):	1	16
T (Mux Data Frames over sync bytes):	4	9
R (# of check bytes in FEC Data Frame):	0	8
S (ratio of FEC over PMD Data Frame length):	0.2848	5.7639
L (# of bits in PMD Data Frame):	6797	322
D (interleaver depth):	1	8
Delay (msec):	0.7	11.52
INP (DMT symbol):	0.0	0.79
Super Frames:	0	0
Super Frame Errors:	0	0
RS Words:	0	412554
RS Correctable Errors:	0	0
RS Uncorrectable Errors:	0	0
HEC Errors:	0	0
OCD Errors:	0	0
LCD Errors:	0	0
Total Cells:	38116774	1725339
Data Cells:	16850	8247
Bit Errors:	0	0
Total ES:	0	0
Total SES:	0	0
Total UAS:	21	21

ADSL BER Test
Reset Statistics

# ROUTE INFO

To access the **ROUTE INFO** setting window, click on the **ROUTE INFO** button under the **STATUS** tab.

The Route Info section displays route information showing the IP addresses of the destination, gateway, and subnet mask as well as other route information



The screenshot shows the D-Link DSL-2750B web interface. The top navigation bar includes the D-Link logo and tabs for SETUP, ADVANCED, MAINTENANCE, and STATUS. The left sidebar contains a menu with options: Device Info, Wireless Clients, DHCP Clients, Logs, Statistics, Route Info (highlighted), IPv6 Status, IPv6 Routing Info, and Logout. The main content area is titled "ROUTING" and includes a legend for flags: U - up, I - reject, G - gateway, H - host, R - reinstate D - dynamic (redirect), M - modified (redirect). Below this is a section titled "DEVICE INFO -- ROUTE" containing a table with the following data:

Destination	Gateway	Subnet Mask	Flag	Metric	Service	Interface
10.0.0.1	0.0.0.0	255.255.255.255	UH	0	pppoe_atm0	ppp0
192.168.1.0	0.0.0.0	255.255.255.0	U	0		br0
239.0.0.0	0.0.0.0	255.0.0.0	U	0		br0
0.0.0.0	0.0.0.0	0.0.0.0	U	0	pppoe_atm0	ppp0

# IPv6 STATUS

To access the **IPv6 Status** setting window, click on the **IPv6 Status** button under the **STATUS** tab.

All of your IPv6 Internet and network connection details are displayed on this page.

The screenshot shows the D-Link web interface for a DSL-2750B router. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, and STATUS. The left sidebar contains a menu with options like Device Info, Wireless Clients, DHCP Clients, Logs, Statistics, Route Info, IPv6 Status (which is highlighted), IPv6 Routing Info, and Logout. The main content area is titled 'IPv6 NETWORK INFORMATION' and contains a message: 'All of your IPv6 Internet and network connection details are displayed on this page.' Below this is a section for 'IPv6 CONNECTION INFORMATION' with the following details:

- IPv6 Connection Type : pppoe
- Network status :
- Wan IPv6 Address :
- IPv6 Default Gateway :
- Primary IPv6 DNS Server :
- Secondary IPv6 DNS Server :
- LAN IPv6 Link-Local Address : FE80::21A:2BFF:FE27:5000/64
- DHCP-PD :
- IPv6 Network assigned by DHCP-PD :
- LAN IPv6 Address :

At the bottom, there is a section for 'LAN IPv6 COMPUTERS' with a table header:

IPv6 Address	Name(if any)

# IPv6 ROUTING INFO

To access the **IPv6 Routing Info** setting window, click on the **IPv6 Routing Info** button under the **STATUS** tab.

This Routing page displays the IPv6 routing details configured for your router

The screenshot shows the D-Link DSL-2750B web interface. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, and STATUS. The left sidebar contains a menu with options: Device Info, Wireless Clients, DHCP Clients, Logs, Statistics, Route Info, IPv6 Status, IPv6 Routing Info, and Logout. The main content area displays the IPv6 Routing Info page, which includes a section for 'IPv6 ROUTING TABLE' and a section for 'STATIC IPv6 ROUTES' with a table header.

Name	Destination Addr/Prefix Length	Metric	Gateway Addr	Interface
------	--------------------------------	--------	--------------	-----------

# Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DSL-2750B. Read the following descriptions if you are having problems. (The examples below are illustrated in Windows® XP. If you have a different operating system, the screenshots on your computer will look similar to the following examples.)

## 1. Why can't I access the web-based configuration utility?

When entering the IP address of the D-Link router (192.168.1.1 for example), you are not connecting to a website on the Internet or have to be connected to the Internet. The device has the utility built-in to a ROM chip in the device itself. Your computer must be on the same IP subnet to connect to the web-based utility.

- Make sure you have an updated Java-enabled web browser. We recommend the following:
  - Internet Explorer 6.0 or higher
  - Firefox 1.5 or higher
- Verify physical connectivity by checking for solid link lights on the device. If you do not get a solid link light, try using a different cable or connect to a different port on the device if possible. If the computer is turned off, the link light may not be on.
- Disable any internet security software running on the computer. Software firewalls such as Zone Alarm, Black Ice, Sygate, Norton Personal Firewall, and Windows® XP firewall may block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it.
-

## Section 4 - Troubleshooting

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- Configure your Internet settings:
  - Go to **Start > Settings > Control Panel**. Double-click on the **Internet Options** icon. From the **Security** tab, click on the button to restore the settings to their defaults.
  - Click on the **Connection** tab and set the dial-up option to Never Dial a Connection. Click on the LAN Settings button. Make sure nothing is checked. Click on the **OK**.
  - Go to the **Advanced** tab and click on the button to restore these settings to their defaults. Click on the **OK** button three times.
  - Close your web browser (if open) and open it.
- Access the web management. Open your web browser and enter the IP address of your D-Link router in the address bar. This should open the login page for the web management.
- If you still cannot access the configuration, unplug the power to the router for 10 seconds and plug back in. Wait about 30 seconds and try accessing the configuration. If you have multiple computers, try connecting using a different computer.

### 2. What can I do if I forgot my 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 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, type in the default User Name “admin,” and the default Password “admin” then click on the OK button to access the web-based manager.



# APPENDIX

## Wireless Basics

D-Link 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 D-Link 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.

### **Why D-Link Wireless?**

D-Link is the worldwide leader and award winning designer, developer, and manufacturer of networking products. D-Link delivers the performance you need at a price you can afford. D-Link has all the products you need to build your 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, D-Link has a wireless solution for it.

### **Home**

- Gives everyone at home broadband access
- Surf the web, check email, instant message, download multimedia files.
- 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 the office
- Remotely access your office network from home
- Share the 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 D-Link 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 you next-door neighbors or intruders connect to your wireless network. Secure your wireless network by turning on the WPA 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 D-Link wireless network 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.

# Networking Basics

## Check your IP address

After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

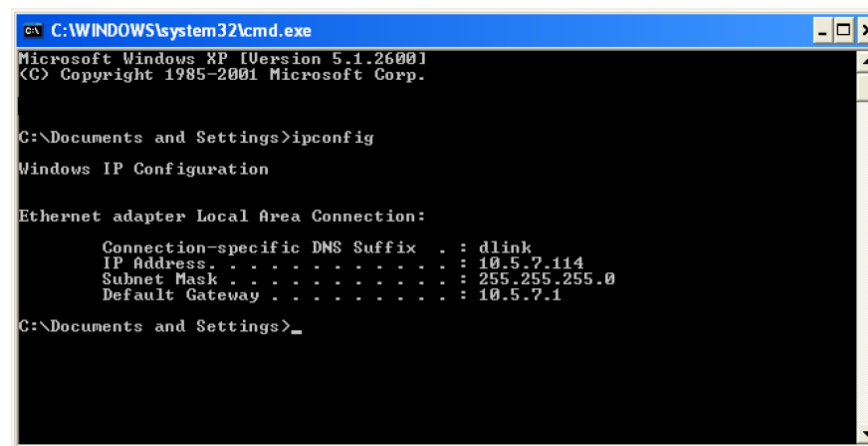
Click on **Start > Run**. In the run box type **cmd** and click on the **OK**.

At the prompt, type **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, 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.

If you are connecting to a wireless network at a hotspot (e.g. hotel, coffee shop, airport), please contact an employee or administrator to verify their wireless network settings.



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : dlink
    IP Address. . . . . : 10.5.7.114
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 10.5.7.1

C:\Documents and Settings>_
```

## 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:

### Step 1

Windows® XP - Click on **Start > Control Panel > Network Connections**.

Windows® 2000 - From the desktop, right-click on the **My Network Places > Properties**.

### Step 2

Right-click on the **Local Area Connection** which represents your D-Link network adapter and select **Properties**.

### Step 3

Highlight **Internet Protocol (TCP/IP)** and click on the **Properties**.

### Step 4

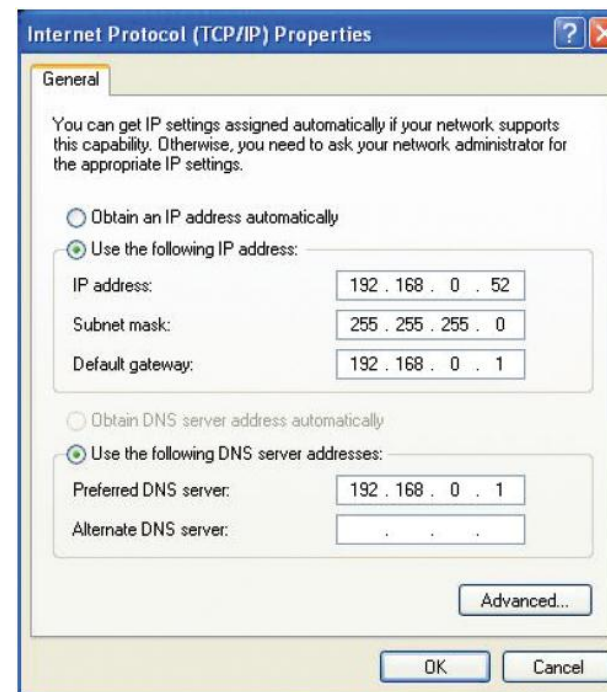
Click on the **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

Example: If the router's LAN IP address is 192.168.0.1, make your IP address 192.168.0.X where X is a number between 2 and 99. Make sure that the number you choose is not in use on the network. Set Default Gateway the same as the LAN IP address of your router (192.168.0.1).

Set Primary DNS the same as the LAN IP address of your router (192.168.0.1). The Secondary DNS is not needed or you may enter a DNS server from your ISP.

### Step 5

Click on the **OK** twice to save your settings.



# FCC Caution

## Statement :

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## Class B:

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a Particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

## CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

## Supprot:

DSL-2740B, DSL-2750B. DSL-2741B, DSL-2750U, DSL-2741U

# IC Caution

**English:**

This Class B digital apparatus complies with Canadian ICES-003 and RSS-210. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

**Française:**

Cet appareil numérique de classe B est conforme aux normes canadiennes ICES-003 et RSS-210. Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

# Contacting Technical Support

You can find software updates and user documentation on the D-Link websites.

If you require product support, we encourage you to browse our FAQ section on the Web Site before contacting the Support line.

We have many FAQ's which we hope will provide you a speedy resolution for your problem.

## **For Customers within Australia:**

Tel: 1300-766-868

24/7 Technical Support

Web: <http://www.dlink.com.au>

E-mail: [support@dlink.com.au](mailto:support@dlink.com.au)

## **For Customers within New Zealand:**

Tel: 0800-900-900

24/7 Technical Support

Web: <http://www.dlink.co.nz>

E-mail: [support@dlink.co.nz](mailto:support@dlink.co.nz)



# D-Link SharePort™


## ● Introduction

The D-Link SharePort™ allows you to share USB devices such as external storage drives and multifunction printers with other users across your network by simply connecting the device to select D-Link routers. This allows you to use an external storage drive or printer located across your network as if it were connected to your local PC.



## ● System Requirements

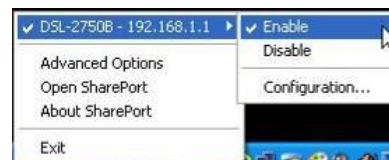
- Windows
- 2000 / 2003 / XP / Vista / 7 32-bit / 64-bit
- Pentium 3 800MHz or better
- 256MB RAM or higher
- CD-ROM drive
- A compatible D-Link router

## ● Installation



1. Insert the CD-ROM into your computer.
2. Follow the on-screen instructions.
3. The  icon should appear in the System Tray at the lower-right corner on the desktop.

## ● Set up the D-Link Router

1. Connect the D-Link Router to the network.
2. Power on the D-Link Router.
3. Double-click on the  icon to open the D-Link SharePort.
4. Right-click on  in the System Tray at the lower-right corner on your Windows Desktop. A window pops up to display the D-Link Router.



## ● Enable Network USB on the D-Link Router


1. Click on the D-Link Router.
2. Click on **Enable**.
3. The  icon in the Windows System Tray should change to a  icon.

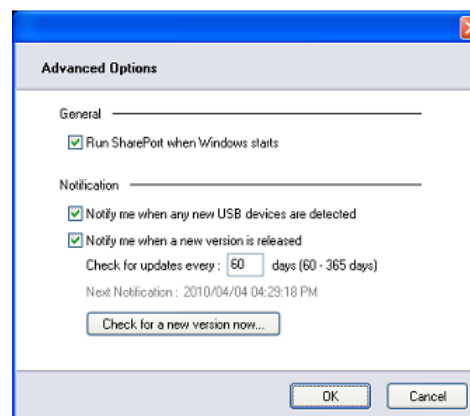
## ● Connect USB Devices to the D-Link Router

The D-Link SharePort automatically detects for each connected USB device. A window will pop up for each detected USB device.



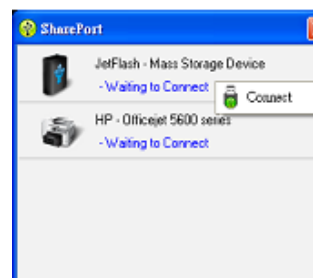
## Appendix F – DLink SharePort

1. Right-click on the  icon.
2. Click on Open SharePort.
3. The D-Link SharePort displays the connected USB devices on the network.
4. Advanced Options can be set by clicking on Advanced Options.



### ● Virtually Connect and Disconnect a USB Device

1. Move the cursor to Waiting to Connect and click on **Connect** to virtually connect a USB device.



## Appendix F – DLink SharePort

2. The D-Link SharePort displays which user is virtually connecting this USB device.

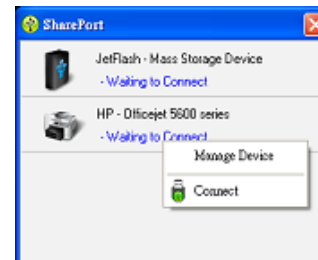


3. Move the cursor to In Use By (Owner) and click on **Disconnect** to virtually disconnect the USB device.



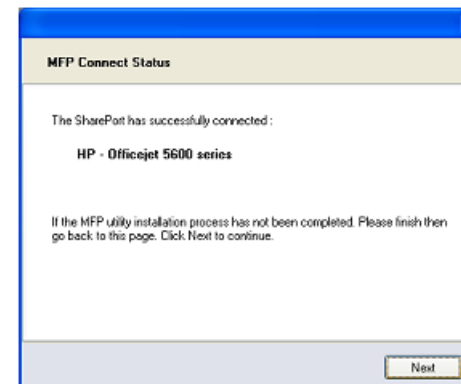
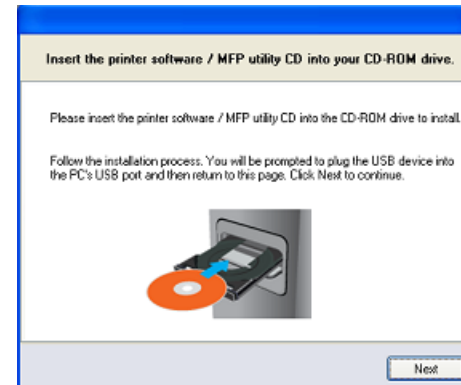
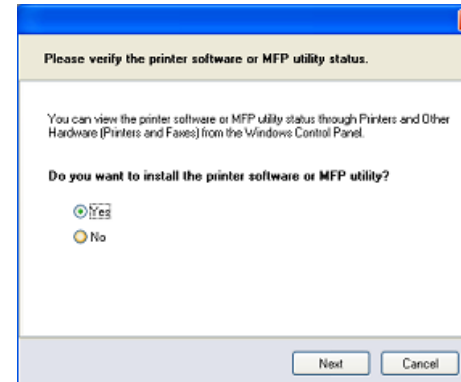
### ● When the USB Device is a Multifunction Printer

1. Move the cursor to Waiting to Connect and click on **Manage Device**.



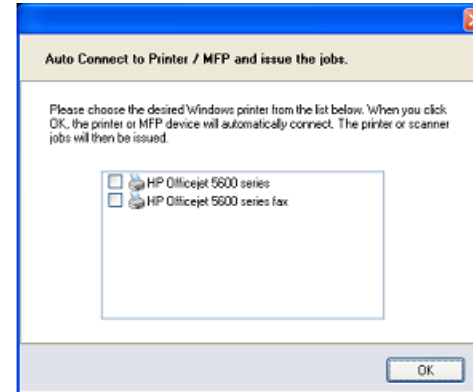
## Appendix F – DLink SharePort

2. Click **Yes** on the question “Do you want to install the printer software or MFP utility?”
3. Insert the CD-ROM of the multifunction printer and follow the instructions to install the multifunction printer’s driver. When the installation process prompts you to connect the multifunction printer to your PC, click **Next**.
4. The D-Link SharePort virtually connects to this multifunction printer. Click **Next**



## Appendix F – DLink SharePort

5. Choose the printer driver that you want D-Link SharePort to auto-connect when you print.



### ● When You Want to Scan

1. Move the cursor to Available for Use and click on **Scan Now**.



# Technical Specifications

## ADSL Standards

- ANSI T1.413 Issue 2
- ITU G.992.1 (G.dmt) Annex A
- ITU G.992.2 (G.lite) Annex A

## 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

## Protocols

- IEEE 802.1d Spanning Tree
- TCP/UDP
- ARP
- RARP
- ICMP
- RFC1058 RIP v1
- RFC1213 SNMP v1 & v2c
- RFC1334 PAP
- RFC1389 RIP v2
- RFC1577 Classical IP over ATM
- RFC1483/2684 Multiprotocol Encapsulation over ATM Adaptation Layer 5 (AAL5)
- RFC1661 Point to Point Protocol
- RFC1994 CHAP
- RFC2131 DHCP Client / DHCP Server
- RFC2364 PPP over ATM
- RFC2516 PPP over Ethernet

## Data Transfer Rate

### ADSL

- G.dmt: full rate downstream: up to 8 Mbps / upstream: up to 1 Mbps
- G.lite: downstream up to 1.5 Mbps / upstream up to 512 Kbps

### ADSL2

- G.dmt.bis full rate downstream: up to 12 Mbps / upstream: up to 1 Mbps

### ADSL 2+

- Full rate downstream: up to 24 Mbps / upstream: up to 1 Mbps

## Media Interface

- ADSL interface: RJ-11 connector for connection to 24/26 AWG twisted pair telephone line
- LAN interface: RJ-45 port for 10/100BASE-T Ethernet connection

## WIRELESS LAN

- 802.11b/g/n standards
- Wireless speed: up to 300Mbps (802.11n)
- Frequency range: 2.4 GHz to 2.484G Hz
- Antennas: 2 non-detachable dipole antennas.
- WEP data encryption
- WPA/WPA2 (Wi-Fi Protected Access) security
- Multiple SSID
- 802.11e Wireless QoS (WMM/WME)
- MAC address-based access control

\* 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.