



User Manual

Dual Band AC1750 Gigabit ADSL2+ Modem Router

DSL-2890AL

Table of Contents

Table of Contents 2
Product Overview
Package Contents
System Requirements
Features4
Hardware Overview5
Front Panel
Rear Panel
Bottom Panel
Basic Installation
Before You Begin
Installation Notes
Information needed from ADSL service provider
Information needed about units Router
Device Installation 12
Power on Router 12
Factory Reset Button
Network Connections
Getting Started14
How to connect to the Web User Interface
First Time Installation15
Web User Interface Configuration
Setup Category23
Internet
Wireless Settings
Network Settings
Storage
IPv6 68
mvdlink™ Settinas
Advanced Category
Virtual Server
Port Forwarding101
Port Triggering
QoS Engine
Network Filter
Access Control

Website Filter
Inbound Filter
Firewall Settings
Routing
Advanced Wireless
Wi-Fi Protected Setup125
Advanced Network
Guest Wi-Fi 132
IPv6 Firewall141
IPv6 Routing143
Maintenance Category 144
Admin 145
Time
Email Settings 151
System 153
Firmware
Dynamic DNS 156
Diagnostics
Schedules 160
Status Category162
Device Info 163
Logs 167
Statistics
Internet Sessions 172
Wireless
Routing
IPv6
IPv6 Routing 1/6
Help Category 177
Knowledge Base 178
Networking Basics 178
Wireless Basics
Wireless Modes 182
Wireless Security
What is WPA?
Frequently Asked Questions
Technical Specifications

Product Overview

Package Contents

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

- One DSL-2890AL Router
- One Power Adapter
- One CD containing the User Manual
- One twisted-pair telephone cable used for DSL connection
- One straight-through Ethernet cable
- One Quick Installation Guide

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

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

System Requirements

Network Requirements:	 Ethernet Adapter at 10/100/1000Mbps. Wireless Adapter with IEEE 802.11ac, 802.11n, 802.11a, or 802.11b/g Protocols.
Web User Interface Requirements:	 Windows[®], Macintosh, or Linux-based Operating System.
	 Internet Browser like Internet Explorer 7 or higher, Firefox 3.5 or higher, Safari 4 or higher, or Chrome 8 or higher.
Internet Requirements:	ADSL Internet Connection Service from an ISP.

Features

- Faster Wireless Networking The router provides up to 450Mbps* for the 2.4GHz band 802.11n wireless connection and 1.3Gbps for the 5GHz band 802.11ac wireless connection. This capability allows users to participate in real-time activities online, such as video streaming, online gaming, and real-time audio.
- Compatible with 802.11a, 802.11b and 802.11g Devices The router is still fully compatible with the IEEE 802.11a, 802.11b, and 802.11g standards, so it can connect with existing 802.11a, 802.11b and 802.11g PCI, USB and Cardbus adapters.
- DHCP Support Dynamic Host Configuration Protocol automatically and dynamically assigns all LAN IP settings to each host on your network. This eliminates the need to reconfigure every host whenever changes in network topology occur.
- Network Address Translation (NAT) For small office environments, the router 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 ADSL Very high rates of data transfer are possible with the router. Up to 24Mbps downstream bit rate using the G.dmt standard. (For ADSL2+)
- Easy Installation The router uses a web-based graphical user interface program for convenient management access and easy set up. Any common web browsing software can be used to manage this router.
- USB Support- The router provides a USB port to easily share files and printers. The router supports a USB storage option that shares files through a SAMBA file server and in addition also supports sharing USB printers to network members. Please note that the USB storage device is not included in this package and must be bought separately.
- Online Firmware Checker The router provides a method to check if there is any updated firmware of the router on D-Link support website.
- Multiple PVCs The router provides five PVCs to offer different services.
- * Maximum wireless signal rate derived from IEEE standard 802.11n specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental factors will adversely affect wireless signal range.

Hardware Overview

Front Panel

Number	Description
	WPS - The light will flash while a WPS connection is being established. The light will light solid for 5 seconds if a successful WPS connection has been made. This is also the WPS button used to initiate the push-button WPS connection.
9	Internet - Steady green light indicates a successful Internet connection. Steady red light indicates failed Internet connection. Dark if no WAN protocol is configured.
9	DSL - Steady green light indicates a valid ADSL connection. This will light after the ADSL negotiation process has been settled. A blinking green light indicates activity on the WAN (ADSL) interface.
SS	USB 3.0 - Steady green light indicates a successful USB connection. Dark if no USB device is connected.
ф	USB 2.0 - Steady green light indicates a successful USB connection. Dark if no USB device is connected.
(2.46	2.4GHz WLAN - Steady green light indicates the 2.4GHz WLAN is available.
((56	5GHz WLAN - Steady green light indicates the 5GHz WLAN is available.
	LAN - A solid light indicates a valid link on startup. This light will blink when there is activity currently passing through the Ethernet port. A green light will be illuminated for a 10/100Mbps connection and an amber light will be illuminated for a 1000Mbps connection.
Φ	Power - A steady green light indicates the unit is powered on. When the device is powered off this remains dark. During the Power-On Self-Test this light will be red. If this light remains red after the POST, a malfunction has occurred.



Rear Panel

- -----

Number	Description	
DSL	ADSL Port - Use the DSL cable to connect to your telephone line (RJ-11 port).	
USB 3.0	USB (3.0) Port - Use the USB 3.0 port to connect your USB 3.0 device.	
USB	USB (2.0) Port - Use the USB 2.0 port to connect your USB 2.0 device.	DSL
4	Ethernet Ports - Use the Ethernet ports to connect the router to your Ethernet LAN or Ethernet devices.	US8 30
WIFI ON/OFF	Wireless On/Off Switch Button - Please press and hold on for 3 seconds to turn on/turn off.	
POWER	Power Button - Push in to power-on the router. Push again to power-off the router.	
• ○ € ⊕ 12V == 25A	Power Receptor - Receptor for the supplied power adapter.	
		WFL
		ON/OFF
		0N0FF
		12V=2.5A

Bottom Panel



Basic Installation

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

Before You Begin

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

Installation Notes

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

Low Pass Filters

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

Operating Systems

The router 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[®], Macintosh, and Linux-based Operating Systems.

Web Browser

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

Ethernet Port (NIC Adapter)

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

Additional Software

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

If your ADSL service is delivered through a PPPoE 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 needed from ADSL service provider

<u>Username</u>

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

Password

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

WAN Setting / Connection Type

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

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

Modulation Type

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

Security Protocol

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

<u>VPI</u>

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 needed about this Router

<u>Username</u>

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

Password

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

LAN IP Addresses for the Router

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 Router

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

Information needed about your LAN or computer

Ethernet NIC

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

DHCP Client status

Your 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 router will assign are from **192.168.1.2 to 192.168.1.254**. Your computer (or computers) needs to be configured to obtain an IP address automatically (that is, they need to be configured as DHCP clients.)

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

Device Installation

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

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

Power on Router

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

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

Factory Reset Button

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

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

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

Network Connections

Connect ADSL Line

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

Connect Router to Ethernet

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

Hub or Switch to Router Connection

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

Computer to Router Connection

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

Getting Started

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

How to connect to the Web User Interface

Connect to the Router

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

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

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

↔ ↔ @ 192.168.1.1	, D → X 🏉 Blank Page	×

LOGIN	
Login to the router :	
User Name	admin
Password	Login

First Time Installation

The **D-Link Setup Wizard** will be initiated when a user logs into the router's Web User Interface (Web UI) for the first time. It is designed to assist users with an easy step-bystep installation procedure, configuring the basic features found on this router.

Welcome to the D-Link Setup Wizard

On this page, we can read through the steps that will be used for this wizard.

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

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

WELCOME TO THE D-LINK SETUP WIZARD

This wizard will guide you through a step-by-step process to configure your new D-Link router and connect to the Internet.

Cancel

Next

- Step 1: Configure your Internet Connection
- Step 2: Configure your Wi-Fi Security
- Step 3: Set your Password
- Step 4: Select your Time Zone
- Step 5: Confirm WI-FI settings
- Step 6: mydlink Registration

Step 1: Configure Your Internet Connection

Connect the one end of the Internet telephone cable (RJ-11) into the Internet port of the router and make sure the other end is connected to the DSL connection point.

Click the **Connect** button to initiate the Internet connection test.

Click the **Prev** button to return to the previous step.

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

STEP 1: CONFIGURE YOUR INTERNET CONNECTION

Please connect the gray cable to the DSL port on the back of the router, then connect the other end to the your wall mounted phone jack. If you live in AU or NZ you will need to connect the microfilter splitter that we supplied to your wall mounted phone jack first. Then connect the gray cable to the ADSL port on the microfilter splitter



On this page, the router is testing the Internet connectivity from the DSL provider.

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

Click the **Prev** button to return to the previous step.

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

After the DSL synchronization test has passed, we can select an Internet connection type from the list provided. In this section, we can configure the following:

- **Country:** Select your country from the drop-down menu. After selecting your country from the drop-down menu, the VPI and VCI parameters will automatically be selected for your country.
- VPI: Enter the Virtual Path Identifier (VPI) value here.
- VCI: Enter the Virtual Circuit Identifier (VCI) value here.
- **Encapsulation:** Select the encapsulation method here. Options to choose from are LLC and VC MUX.
- **DHCP Connection (Dynamic IP Address):** Select this option when your Internet connection can be made automatically. When selecting this option, this wizard will automatically continue to step 2.
- **Username / Password Connection (PPPoE):** Select this option when your Internet connection requires a username and a password. For DSL connections, use this option.
- Username / Password Connection (PPPoA): Select this option when your Internet connection requires a PPPoA username and password.
- Static IP Address Connection: Select this option when your Internet connection requires an IP address, Default Gateway IP address, and DNS IP addresses.
- **Bridge Connection:** Select this option to use this device as a bridging device between your LAN and the ISP. When selecting this option, this wizard will automatically continue to step 2.

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

Click the **Prev** button to return to the previous step.

STEP 1: CONFIGURE YOUR INTERNET CONNECTION
Routers is detecting your Internet connection type, please wait
Cancel Prev Next

	Country : Not Listed 🗸
	VPI : 8
	VCI : 35
En	capsulation : O VC MUX
Ple	ase select the Internet connection type below:
0	DHCP Connection (Dynamic IP Address)
	Choose this if your Internet connection automatically provides you with an IP Address. Most Cable Moduse this type of connection.
۲	Username / Password Connection (PPPoE)
	Choose this option if your Internet connection requires a username and password to get online. Most E modems use this type of connection.
0	Username / Password Connection (PPPoA)
	Choose this option if your Internet connection requires a username and password to get online. Most E modems use this type of connection.
0	Static IP Address Connection
	Choose this option if your Internet Setup Provider provided you with IP Address information that has to manually configured.
0	Bridge Connection
	Choose this option if the modem can be configured to act as a bridging device between your LAN and ISP.

After selecting to use the **Username/Password Connection (PPPoE)**, the following page will be available. In this section, we can configure the following:

User Name: Enter the PPPoE username here.

Password: Enter the PPPoE password here.

Note: This information is usually supplied by the Internet Service Provider (ISP).

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

Click the **Prev** button to return to the previous step.

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

After selecting to use the **Username/Password Connection (PPPoA)**, the following page will be available. In this section, we can configure the following:

User Name: Enter the PPPoA username here.

Password: Enter the PPPoA password here.

Note: This information is usually supplied by the Internet Service Provider (ISP).

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

Click the **Prev** button to return to the previous step.

SET USERNAME AND PASSWORD CON	INECTION (PPPOE)
To set up this connection you will nee Provider. If you do not have this info	ed to have a Username and Password from your Internet Service rmation, please contact your ISP.
User Name	
Password :	
	Cancel Prev Next

set up this connection you will n	eed to have a Username and Password from your Internet
ervice Provider. If you do not have	a this information, please contact your ISP.
User Name	:
Password	:

After selecting to use the Static IP Address Connection, the following page will be	
available. In this section, we can configure the following:	

- **IP Address:** Enter the WAN static IP address here.
- Subnet Mask: Enter the WAN subnet mask here.
- Gateway Address: Enter the WAN gateway IP address here.
- Primary DNS Address: Enter the primary DNS IP address here.
- **Secondary DNS Address:** Enter the secondary DNS IP address here. This field is optional.

Note: This information is usually supplied by the ISP.

- Click the **Next** button to continue to the next step.
- Click the **Prev** button to return to the previous step.

ntact your ISP.		
IP Addres	s: 0.0.0.0	
Subnet Mas	k : 0.0.0.0	
Gateway Addres	s: 0.0.0.0	
NS SETTINGS		
Primary DNS Addres	s: 0.0.0.0	
Secondary DNS Addres	s: 0.0.0.0	

Step 2: Configure Your Wi-Fi Security

After configuring the Internet connection, we can configure the wireless connectivity used on this router. In this section, we can configure the following:

- Wi-Fi Network Name: Enter the wireless network name (SSID) here. Remember to use separate SSIDs for the 2.4GHz and 5GHz connections, to prevent confusion. These SSIDs are used by wireless clients to connect to this router. When wireless clients scan for available wireless networks, these names will appear.
- **Wi-Fi Password:** Enter the wireless password here. By default, the wireless security method used is WPA/WPA2-Personal with both TKIP and AES cipher types. When wireless clients connect to your wireless network, this password needs to be entered for a successful connection.

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

Click the Prev button to return to the previous step.

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

STEP 2: CONFIGURE YOUR WI-FI SECURITY

Wi-Fi Network Name (SSI	D) :
D-Link DSL-2890AL	(Using up to 32 characters)
Wi-Fi Password :	
	(Between 8 and 63 characters)
Give your Wi-Fi network a Wi-Fi Network Name (SSI	name and a password. (5GHz Band) D) :
Give your Wi-Fi network a Wi-Fi Network Name (SSI D-Link DSL-2890AL_5GHz	D) : (Using up to 32 characters)
Give your Wi-Fi network a Wi-Fi Network Name (SSI D-Link DSL-2890AL_5GHz Wi-Fi Password :	name and a password. (5GHz Band) D) : (Using up to 32 characters)
Give your Wi-Fi network a Wi-Fi Network Name (SSI D-Link DSL-2890AL_5GHz Wi-Fi Password :	D) : (Using up to 32 characters) (Between 8 and 63 characters)

Step 3: Set Your Password

After configuring the wireless connectivity, we can configure the Web UI login password for his router. In this section, we can configure the following:

- **Password:** Enter the new Web UI login password here.
- Verify Password: Enter the new Web UI login password here again.
- **Enable Graphical Authentication:** Tick this option to enable the graphical authentication method. This is optional added security.

Note: For security, it is highly recommended to change the default login password for this router. The username cannot be changed.

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

Click the **Prev** button to return to the previous step.

STEP 3: SET YOUR PASSWORD
To secure your new networking device, please set and verify a password below, and enabling CAPTCHA Graphical Authentication provides added security protection to prevent unauthorized online users and hacker software from accessing your network settings.
Password : ••••• Verify Password : ••••• Enable Graphical Authentication :
Cancel Prev Next

Step 4: Select Your Time Zone

After configuring the Web UI login details, we can configure the time zone used by this router. In this section, we can configure the following:

Time Zone: Select the time zone that should be used by this router. This will be used by the time and date configuration later on in this manual.

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

Click the **Prev** button to return to the previous step.

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

Step 5: Confirm Wi-Fi Settings

After configuring the time zone, we can view a summary of the Wi-Fi settings for confirmation.

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

Click the **Prev** button to return to the previous step.

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

STEP 4: SELECT YOUR	TIME ZONE
Select the appropriat time-based options for	e time zone for your location. This information is required to configure the or the router.
	(GMT+10:00) Canberra, Melbourne, Sydney
	Cancel Prev Next

STEP 5: CONFIRM WI-FI SETTINGS
Below is a detailed summary of your Wi-Fi security settings. Please print this page out, or write the information on a piece of paper, so you can configure the correct settings on your Wi-Fi devices.
Wi-Fi Network Name (SSID) 2.4GHz : D-Link DSL-2890AL
Wi-Fi Password : wifipassword
Wi-Fi Network Name (SSID) 5GHz : D-Link DSL-2890AL_5GHz
Wi-Fi Password : wifipassword
Cancel Prev Next

After clicking the **Next** button, the settings will be saved and Internet connectivity will be attempted.

After this, the **D-Link Setup Wizard** will be completed and the user will be navigated to the main Web UI page.

When the Internet connection is ready, the router will proceed to the mydlink[™] registration in step 6. When the Internet connection is not ready, a pop-up window will be displayed to remind the user to restart or quit the Setup Wizard.

SAVING SETTINGS

Your settings are being saved.

Please wait...

Checking internet connectivity.

If no Internet connection was detected, the user can restart the D-Link Setup Wizard or be navigated to the main Web UI page.

Click the **OK** button to restart the D-Link Setup Wizard. Click the **Cancel** button to navigate to the main Web UI page.



Step 6: mydlink Registration

If the Internet connection was successfully detected, the following page will be available. Please refer to **mydlink[™] Settings** on page 94 for more information.

After this, the D-Link Setup Wizard will be completed and the user will be navigated to the main Web UI page.

STEP 6: MYDLINK REGISTRATION

This device is mydlink-enabled, which allows you to remotely monitor and manage your network through the mydlink.com website, or through the mydlink mobile app. You will be able to check your network speeds, see who is connected, view device browsing history, and receive notifications about new users or intrusion attempts.

You can register this device with your existing mydlink account. If you do not have one, you can create one now.

Do you have mydlink account? O Yes, I have a mydlink account.
I want to register and login with a new mydlink account.



Web User Interface Configuration

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

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

The left menu lists out the **Pages** available, for each individual category, for configuration. In this example, we observe the pages available in the **Setup** category. The pages available here are **Internet**, **Wireless Settings**, **Network Settings**, **Storage**, **Media Server**, **IPv6**, and **mydlink™ Settings**.

Product Page : DSL-2890AL		Site Map Firmwa	are Version : AU_1.02.04		
				Build	d Timestamp : 01212014
D-Lit	1 k				\prec
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
INTERNET	INTERNET CONNECTION	ON			Helpful Hints
WIRELESS SETTINGS	If you are configuring t	he device for the first tim	e, we recommend that yo	ou click on the	 If you are new to networking and have never configured a router before, dick on Internet Connection Setup Wizard and the router will guide you through a faw gimed stars to net
NETWORK SETTINGS	modify or configure the	etup Wizard, and follow th e device settings manually,	e instructions on the scre , click the Manual Internet	en. If you wish to Connection Setup.	
STORAGE					
MEDIA SERVER	INTERNET CONNECTIO	JN SETUP WIZARD			
IPV6	If you would like to util new D-Link Systems Ro	in connecting your	your network up and running.		
MYDLINK SETTINGS		If you consider yourself an advanced user and have configured a router before, dick Manual Internet Connection Setup to			
LOGOUT	Note: Before launching Quick Installation Guide				
	MANUAL INTERNET C	ONNECTION OPTION			input all the settings manually.
	If you would like to cor click on the button bel	nfigure the Internet settin ovv. Manual Internet C	ngs of your new D-Link Ro Connection Setup	uter manually, then	• More
BROADBAND					

Setup Category

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

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

- **Internet** On this page we can configure services related to the Internet connectivity of this product.
- **Wireless Settings** On this page we can configure services related to the Wireless connectivity of this product.
- **Network Settings** On this page we can configure services related to the Local Area Network connectivity of this product.
- **Storage** On this page we can configure services related to the storage media and services used by this product.
- **Media Server** On this page we can configure the DLNA media server and iTunes server used by this product.
- **IPv6** On this page we can configure services related to the IPv6 connectivity of this product.
- **mydlink™ Settings** On this page we can configure the mydlink[™] settings used by this product.

Product Page : DSL-289	90AL			Site Map Firmwa	are Version : AU_1.02.04
				Buik	d Timestamp : 01212014
D-Liı	n ik				\prec
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
INTERNET	INTERNET CONNECTION	DN			Helpful Hints
WIRELESS SETTINGS	If you are configuring t	he device for the first tim	ne, we recommend that y	ou click on the	 If you are new to networking and have
NETWORK SETTINGS	modify or configure the	etup Wizard, and follow ti e device settings manually	ne instructions on the scre r, click the Manual Internet	een. If you wish to t Connection Setup.	never configured a router before, dick on Internet
STORAGE	INTERNET CONNECTION				Connection Setup Wizard and the router
MEDIA SERVER		ON SETOP WIZARD			will guide you through a few simple steps to get
IPV6	If you would like to uti new D-Link Systems Ro	lity our easy to use Web-l outer to the Internet, clic	based Wizard to assist you k on the button below.	in connecting your	your network up and
MYDLINK SETTINGS		Internet Connec	tion Setup Wizard		If you consider
	Note: Before launching Quick Installation Guide	the wizard, please make included in the package.	sure you have followed a	l steps outlined in the	yourself an advanced user and have configured a router before, dick Manual Internet Connection Setup to
	MANUAL INTERNET C	CONNECTION OPTION			input all the settings manually.
	If you would like to conclick on the button be	nfigure the Internet setti	ngs of your new D-Link Ro	uter manually, then	• More
		Manual Internet	connection Setup		
	L				
BROADBAND					

Internet

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

On this page we can configure services related to the Internet connectivity of this product.

	-				
D-hit	nk 👘				
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
INTERNET	INTERNET CONNECT	ION			Helpful Hints
WIRELESS SETTINGS	If you are configuring t	he device for the first time,	we recommend that you o	lick on the Internet	If you are new to
NETWORK SETTINGS	Connection Setup Wiza configure the device set	rd, and follow the instruction times manually, click the M	ons on the screen. If you w lanual Internet Connection	ish to modify or Setup.	networking and have never configured a router before, click on Internet Connection Setun
STORAGE	comigare are device se	carigo mandany, circi circi n		Setupi	
MEDIA SERVER	INTERNET CONNECT	 Wizard and the router will guide you through a few simple steps to get your network up and running. If you consider yourself an advanced user and have configured a router before, click Manual Internet Connection Setup to input all the settings manually. 			
IPV6 MYDLINK SETTINGS	If you would like to utili D-Link Systems Router				
	Internet Connection Setup Wizard Note: Before launching the wizard, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package. MANUAL INTERNET CONNECTION OPTION				
	If you would like to con on the button below.	figure the Internet settings	of your new D-Link Route	r manually, then click	• More
		Manual Internet	Connection Setup		

Internet Connection Setup Wizard

Click the **Internet Connection Setup Wizard** button to initiate the Internet connection setup wizard.

INTERNET CONNECTION SETUP WIZARD

If you would like to utility our easy to use Web-based Wizard to assist you in connecting your new D-Link Systems Router to the Internet, click on the button below.

Internet Connection Setup Wizard

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

After clicking the **Internet Connection Setup Wizard** button, the following page will be available.



Welcome to the D-Link Internet Connection Setup Wizard

This wizard will guide user through a step-by-step wizard, divided into 4 steps, to configure the Internet connectivity used by this router.

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

WELCOME TO THE D-LINK INTERNET CONNECTION SETUP WIZARD				
This wizard will guide you through a step-by-step process to configure your new D-Link router and connect to the Internet.				
 Step 1: Set your Password Step 2: Select your Time Zone Step 3: Configure your Internet Connection Step 4: Save Settings and Connect 				
Prev Next Cancel Connect				

STEP 1: SET YOUR PASSWORD

Step 1: Set Your Password

On this page we can configure the Web UI login password for his router. In this section, we can configure the following:

Password: Enter the new Web UI login password here.

Verify Password: Enter the new Web UI login password here again.

Note: For security, it is highly recommended to change the default login password for this router. The username cannot be changed.

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

Click the **Prev** button to return to the previous step.

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

Step 2: Select Your Time Zone

After configuring the Web UI login details, we can configure the time zone used by this router. In this section, we can configure the following:

Time Zone: Select the time zone that should be used by this router. This will be used by the time and date configuration later on in this manual.

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

Click the **Prev** button to return to the previous step.

By default, your new D-Link Router do the Web-based configuration pages. T password below:	es not have a passwo o secure your new ne	ord configured for administrator access to tworking device, please set and verify a
Password :	•••••	
Verify Password :	•••••	
Prev	Next Cancel	Connect

STEP 2: SELECT YOUR TIME ZONE				
Select the appropriate time zone for your location. This information is required to configure the time- based options for the router.				
Time Zone :	(GMT+10:00) Canberra, Melbourne, Sydney			
Prev	Next Cancel Connect			

Step 3: Configure Your Internet Connection

After configuring the time zone, we can select an Internet connection type from the list provided. In this section, we can configure the following:

- **Country:** Select your country from the drop-down menu. After selecting your country from the drop-down menu, the VPI and VCI parameters will automatically be selected for your country.
- VPI: Enter the Virtual Path Identifier (VPI) value here.
- VCI: Enter the Virtual Circuit Identifier (VCI) value here.
- **DHCP Connection (Dynamic IP Address):** Select this option when your Internet connection can be made automatically. When selecting this option, this wizard will automatically continue to step 2.
- **Username / Password Connection (PPPoE):** Select this option when your Internet connection requires a username and a password. For DSL connections, use this option.
- Username / Password Connection (PPPoA): Select this option when your Internet connection requires a PPPoA username and password.
- Static IP Address Connection: Select this option when your Internet connection requires an IP address, Default Gateway IP address, and DNS IP addresses.
- **Bridge Connection:** Select this option to use this device as a bridging device between your LAN and the ISP. When selecting this option, this wizard will automatically continue to step 2.

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

Click the **Prev** button to return to the previous step.

e	STEP 3: CONFIGURE YOUR INTERNET CONNECTION	
	Configure an ATM PVC identifier	
	Country : Not Listed	
	VCI: 35	
et	Encapsulation : ULC VC MUX 	
ard	Please select the Internet connection type below:	
rnet	O DHCP Connection (Dynamic IP Address)	
e	Choose this if your Internet connection automatically provides you with an IP Address. Most Cable Modems use this type of connection.	
	 Username / Password Connection (PPPoE) 	
	Choose this option if your Internet connection requires a username and password to get online. Most DSL modems use this type of connection.	
n	O Username / Password Connection (PPPoA)	
s.	Choose this option if your Internet connection requires a username and password to get online. Most DSL modems use this type of connection.	
	O Static IP Address Connection	
	Choose this option if your Internet Setup Provider provided you with IP Address information that has to be manually configured.	
	O Bridge Connection	
	Choose this option if the modem can be configured to act as a bridging device between your LAN and your ISP.	
٦.	Prev Next Cancel Connect	

After selecting to use the **DHCP Connection (Dynamic IP Address)** connection method, the following page will be available. In this section, we can configure the following:

MAC Address: Enter the MAC address used for the Internet connection here. Alternatively, click the **Clone Your PC's MAC Address** button to use the PC's MAC address that was originally used to connect to the Internet before the purchase of this router.

Host Name: Enter the host name used for the Internet connection here.

- Primary DNS Address: Enter the primary DNS IP address here.
- Secondary DNS Address: Enter the secondary DNS IP address here. This field is optional.

Note: This information is usually supplied by the ISP.

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

Click the **Prev** button to return to the previous step.

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

After selecting to use the **Username/Password Connection (PPPoE)** connection method, the following page will be available. In this section, we can configure the following:

User Name: Enter the PPPoE username here.

Password: Enter the PPPoE password here.

Note: This information is usually supplied by the Internet Service Provider (ISP).

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

Click the **Prev** button to return to the previous step.

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

To set up this connection, please make sure that you are connected to the D-Link Router with the PC that was originally connected to your broadband connection. If you are, then click the Clone MAC button to copy your computer's MAC Address to the D-Link Router.		
MAC Address :		(optional)
	Clone Your PC's MAC	Address
Host Name :	dlinkrouter	
Note: You may also need to provide a Host Name.If you do not have or know this information, please contact your ISP.		
DNS SETTINGS		
Primary DNS Address :	0.0.0.0	
Secondary DNS Address :	0.0.0.0	(optional)
Prev	Next Cancel	Connect

SET USERNAME AND PASSWORD CONNECTION (PPPOE)

DHCP CONNECTION (DYNAMIC IP ADDRESS)

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

User Name: Password:]
Prev	Next Cancel	Connect

After selecting to use the **Username/Password Connection (PPPoA)** connection method, the following page will be available. In this section, we can configure the following:

User Name: Enter the PPPoA username here.

Password: Enter the PPPoA password here.

Note: This information is usually supplied by the Internet Service Provider (ISP).

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

Click the **Prev** button to return to the previous step.

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

After selecting to use the Static IP Address Connection method, the following page
will be available. In this section, we can configure the following:

IP Address: Enter the WAN static IP address here.

Subnet Mask: Enter the WAN subnet mask here.

Gateway Address: Enter the WAN gateway IP address here.

Primary DNS Address: Enter the primary DNS IP address here.

Secondary DNS Address: Enter the secondary DNS IP address here. This field is optional.

Note: This information is usually supplied by the ISP.

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

Click the **Prev** button to return to the previous step.

SET USERNAME AND PASSWORD CONN	NECTION (PPPOA)
To set up this connection you will nee Service Provider. If you do not have t	ed to have a Username and Password from your Internet this information, please contact your ISP.
User Name :	
Password :	
Prev	Next Cancel Connect

SET STATIC IP ADDRESS CONNECTION	N	
To set up this connection you will need Internet Service Provider. If you have contact your ISP.	d to have a complete a Static IP connection	list of IP information provided by your on and do not have this information, please
IP Address :	0.0.0.0]
Subnet Mask :	0.0.0.0]
Default Gateway :	0.0.0.0]
DNS SETTINGS		
Primary DNS Address :	0.0.0.0]
Secondary DNS Address :	0.0.0.0	(optional)
Prev	Next Cancel	Connect

Setup Complete

After clicking the **Next** button, the following page will be available. On this page we can view a confirmation message, confirming that the D-Link Internet Connection Setup Wizard is completed.

Click the **Connect** button to initiate an attempt to connect to the Internet using the settings configured throughout this wizard.

Click the **Prev** button to return to the previous step.

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

Manual Internet Connection Option

Click the **Manual Internet Connection Setup** button to navigate to the Internet Connection Setup page to manually configure the Internet Connection.

Not Correl Correct

MANUAL INTERNET CONNECTION OPTION

If you would like to configure the Internet settings of your new D-Link Router manually, then click on the button below.

Manual Internet Connection Setup

After clicking the **Manual Internet Connection Setup** button, the following page will be available.



In this section we can configure the WAN connection type. Parameters available for configuration are the following:

- **ADSL Router:** Select this option to use this router as an ADSL router, directly connecting the ADSL telephone line, using the Internet port.
- **Residential Gateway (NBN/UFB Mode):** Select this option to allow this router to connect to the Internet using one of the LAN ports to function as a WAN port and connect to another Internet connection device like a Cable Modem.

WAN CONNECTION TYPE

DSL-2890AL could be a ADSL Router that use ADSL as uplink interface or Residential Gateway that use one Ethernet port as upline interface.

ADSL Router Residential Gateway (NBN/UFB Mode)

After selecting to use the **Residential Gateway (NBN/UFB Mode)** WAN connection type, the following parameters will be available for configuration:

WAN Port: Select the LAN port that will be used as the WAN port. Connect the external Internet connection device, like a Cable Modem, to this port by means of an Ethernet cable.

Note: After selecting this option, the only Internet connection method that can be used is the **Dynamic IP Address** connection method. This router will obtain WAN IP credentials automatically from the external Internet connection device. To enable DHCP on the external Internet connection device, contact the manufacturer of this device for assistance.

In this section, we can configure the DSL settings. Parameters available for configuration are the following:

Modulation: Select the DSL modulation type used here. Options to choose from are Auto, G.Dmt, G.lite, T1.413, ADSL2, AnnexL, ADSL2+, and AnnexM. By default this parameters is set as Auto. This is the recommended option.

Bitswap: Tick this option to enable the bit swap feature.

SRA: Tick this option to enable the Seamless Rate Adaptation (SRA) feature.

In this section, we can configure the ATM settings. Parameters available for configuration are the following:

Interface: Select one of the pre-defined interfaces here.

- **Country:** Select your country option from the drop-down menu. This will automatically change the VPI and VCI fields to match the country's settings.
- **VPI:** Enter the Virtual Path Identifier (VPI) value here.
- **VCI:** Enter the Virtual Circuit Identifier (VCI) value here.
- Latency: Select the latency option here. Options to choose from are Path0, Path1, and Path0 & Path1.
- **Encapsulation:** Select the encapsulation method used here. Options to choose from are **LLC** and **VC MUX**.

WAN	CONNECTION TYPE	

DSL-2890AL could be a ADSL Router that use ADSL as uplink interface or Residential Gateway that use one Ethernet port as upline interface.

O ADSL Router I Residential Gateway (NBN/UFB Mode)

Wan Port : PORT4 💌

DSL SETTING	
Modulation : Bitswap : SRA :	Auto

TM SETTING	
Interface :	PVC1 (8/35)
Country :	Not Listed 💙
VPI:	8
VCI :	35
Latency :	Path0
Encapsulation :	O LLC ○ VC MUX
ATM QoS :	UBR Without PCR 💌

ATM QoS: Select the ATM Quality of Service (QoS) option here. Options to choose from are UBR Without PCR, UBR With PCR, CBR, Non Realtime VBR, and Realtime VBR.

After selecting **UBR With PCR** as the ATM QoS method, the following parameter will be available for configuration:

Peak Cell Rate: Enter the peak cell rate value here.

ATM SETTING	
Interface :	PVC1 (8/35)
Country :	Not Listed 💌
VPI:	8
VCI :	35
Latency :	Path0 🗸
Encapsulation :	⊙ LLC ○ VC MUX
ATM QoS :	UBR With PCR 🗸
Peak Cell Rate :	0

After selecting **CBR** as the ATM QoS method, the following parameter will be available for configuration:

Peak Cell Rate: Enter the peak cell rate value here.

ATM SETTING	
Interface :	PVC1 (8/35)
Country :	Not Listed
VPI:	8
VCI :	35
Latency :	Path0
Encapsulation :	O LLC ○ VC MUX
ATM QoS :	CBR 🗸
Peak Cell Rate :	0

After selecting **Non Realtime VBR** as the ATM QoS method, the following parameters will be available for configuration:

Peak Cell Rate: Enter the peak cell rate value here.

Sustainable Cell Rate: Enter the sustainable cell rate value here.

Maximum Burst Size: Enter the maximum burst size value here.

ATM SETTING	
Interface :	PVC1 (8/35)
Country :	Not Listed 🗸
VPI:	8
VCI :	35
Latency :	Path0
Encapsulation :	O LLC ○ VC MUX
ATM QoS :	Non Realtime VBR 💌
Peak Cell Rate :	0
Sustainable Cell Rate :	0
Maximum Burst Size :	0

After selecting **Realtime VBR** as the ATM QoS method, the following parameter will be available for configuration:

Peak Cell Rate: Enter the peak cell rate value here.

Sustainable Cell Rate: Enter the sustainable cell rate value here.

Maximum Burst Size: Enter the maximum burst size value here.

ATM SETTING	
Interface :	PVC1 (8/35)
Country :	Not Listed 💌
VPI:	8
VCI :	35
Latency :	Path0 🗸
Encapsulation :	● LLC ○ VC MUX
ATM QoS :	Realtime VBR
Peak Cell Rate :	0
Sustainable Cell Rate :	0
Maximum Burst Size :	0

Internet Connection Type – Static IP

In this section we can configure the Internet connection type. Parameters available for configuration are the following:

My Internet Connection is: Select the Internet connection type here. Options to choose from are Static IP, Dynamic IP (DHCP), PPPoE (Username/Password), and Bridge. This

section will explain the parameters that are available after selecting the **Static IP** option.

IP Address: Enter the WAN static IP address here.

Subnet Mask: Enter the WAN subnet mask here.

Default Gateway: Enter the WAN default gateway IP address here.

Primary DNS Address: Enter the primary DNS IP address here.

Secondary DNS Address: Enter the secondary DNS IP address here. This field is optional.

MTU: Enter the Maximum Transmission Unit (MTU) value here.

MAC Address: Enter the MAC address used for the Internet connection here. Alternatively, click the **Clone Your PC's MAC Address** button to use the PC's MAC address that was originally used to connect to the Internet before the purchase of this router.

Note: This information is usually supplied by the ISP.

Click the **Save Settings** button to accept the changes made.

Click the **Don't Save Settings** button to discard the changes made.

My Internet Connection is :	Static IP	
STATIC IP ADDRESS INTERNET (CONNECTION	I ТУ РЕ :
Enter the static address informat	tion provided	by your Internet Service Provider (ISP).
IP Address :		
Subnet Mask :	0.0.0.0	
Default Gateway :		
Primary DNS Server :		
Secondary DNS Server :		(optional)
MTU :	1500	

Internet Connection Type – Dynamic IP (DHCP)

In this section we can configure the Internet connection type. Parameters available for configuration are the following:

My Internet Connection is: Select the Internet connection type here. Options to choose from are Static IP, Dynamic IP (DHCP), PPPoE (Username/Password), PPPoA (Username/Password), and Bridge. This section will explain the parameters that are available after selecting the Dynamic IP (DHCP) option.

Host Name: Enter the host name used for the Internet connection here.

- **Use Unicasting:** Tick this option to use the unicasting method to connect to the DHCP server.
- **Primary DNS Address:** Enter the primary DNS IP address here.
- **Secondary DNS Address:** Enter the secondary DNS IP address here. This field is optional.
- MTU: Enter the Maximum Transmission Unit (MTU) value here.
- **MAC Address:** Enter the MAC address used for the Internet connection here. Alternatively, click the **Clone Your PC's MAC Address** button to use the PC's MAC address that was originally used to connect to the Internet before the purchase of this router.

Note: This information is usually supplied by the ISP.

Click the Save Settings button to accept the changes made.

Click the **Don't Save Settings** button to discard the changes made.

······································		
My Internet Connection is	Dynamic IP (DHCP)
DYNAMIC IP (DHCP) INTERNET	CONNECTIO	N TYPE :
	_	
Use this Internet connection typ	pe if your Int	ernet Service Provider (ISP) didn't prov
you with the Address mitormation		semane and password.
Host Name	dlinkrouter	
Host Name Use Unicasting	dlinkrouter	tibility for some DHCP Servers)
Host Name Use Unicasting Primary DNS Server	dlinkrouter	tibility for some DHCP Servers)
Host Name Use Unicasting Primary DNS Server Secondary DNS Server	dlinkrouter	tibility for some DHCP Servers) (optional)
Host Name Use Unicasting Primary DNS Server Secondary DNS Server MTU	dlinkrouter dlinkrouter function	tibility for some DHCP Servers) (optional)
Host Name Use Unicasting Primary DNS Server Secondary DNS Server MTU MAC Address	dlinkrouter dlinkrouter for the second sec	tibility for some DHCP Servers) (optional)
Internet Connection Type – PPPoE (Username/Password)

In this section we can configure the Internet connection type. Parameters available for configuration are the following:

- My Internet Connection is: Select the Internet connection type here. Options to choose from are Static IP, Dynamic IP (DHCP), PPPoE (Username/Password), PPPoA (Username/Password), and Bridge. This section will explain the parameters that are available after selecting the PPPoE (Username/Password) option.
- Address Mode: Select the address mode here. Options to choose from are Dynamic IP and Static IP.
- **IP Address:** After selecting the **Static IP** option as the **Address Mode**, enter the WAN IP address here.
- **Username:** Enter the PPPoE username here.
- Password: Enter the PPPoE password here.
- Verify Password: Re-enter the PPPoE password here.
- Service Name: Enter the service name here. This field is optional.
- **Reconnect mode:** Select the re-connect mode here. Options to choose from are **Always On**, **On Demand**, and **Manual**. When selecting to use the **Always On** option, a schedule can be applied to the re-connect mode. To add a new schedule, click the **New Schedule** button.
- Maximum Idle Time: After selecting On Demand as the Reconnect Mode, enter the maximum idle time value here. Entering the value 0 means infinite.
- **DNS Mode:** Select the method that will be used to obtain DNS IP addresses here. Options to choose from are **Receive DNS from ISP** and **Enter DNS Manually**.
- Primary DNS Address: After selecting the Enter DNS Manually option for the DNS Mode, enter the primary DNS IP address here.
- Secondary DNS Address: After selecting the Enter DNS Manually option for the DNS Mode, enter the secondary DNS IP address here. This field is optional.
- MTU: Enter the Maximum Transmission Unit (MTU) value here.
- **MAC Address:** Enter the MAC address used for the Internet connection here. Alternatively, click the **Clone Your PC's MAC Address** button to use the PC's MAC address that was originally used to connect to the Internet before the purchase of this router.

Click the **Save Settings** button to accept the changes made.

Click the **Don't Save Settings** button to discard the changes made.

INTERNET CONNECTION TYPE

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

My Internet Connection is : PPPoE (Username / Password)

PPPOE INTERNET CONNECTION TYPE :

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

Address Mode :	Oynamic IP Static IP
IP Address :	
Username :	
Password :	
Verify Password :	
Service Name :	(optional)
Reconnect Mode :	Always on New Schedule
	🔍 On demand 🔘 Manual
Maximum Idle Time :	0 (minutes, 0=infinite)
DNS Mode :	Receive DNS from ISP
Primary DNS Server :	
Secondary DNS Server :	(optional)
MTU :	1492
MAC Address :	
	Clone Your PC's MAC Address
Save Settings Don't Save Settings	

Internet Connection Type – PPPoA (Username/Password)

In this section we can configure the Internet connection type. Parameters available for configuration are the following:

My Internet Connection is: Select the Internet connection type here. Options to choose from are Static IP, Dynamic IP (DHCP), PPPoE (Username/Password), PPPoA (Username/Password), and Bridge. This section will explain the parameters that are available after selecting the PPPoA (Username/Password) option.

Username: Enter the PPPoA username here.

Password: Enter the PPPoA password here.

Verify Password: Re-enter the PPPoA password here.

Service Name: Enter the service name here. This field is optional.

- **Reconnect mode:** Select the re-connect mode here. Options to choose from are **Always On**, **On Demand**, and **Manual**. When selecting to use the **Always On** option, a schedule can be applied to the re-connect mode. To add a new schedule, click the **New Schedule** button.
- Maximum Idle Time: After selecting On Demand as the Reconnect Mode, enter the maximum idle time value here. Entering the value 0 means infinite.
- **DNS Mode:** Select the method that will be used to obtain DNS IP addresses here. Options to choose from are **Receive DNS from ISP** and **Enter DNS Manually**.
- Primary DNS Address: After selecting the Enter DNS Manually option for the DNS Mode, enter the primary DNS IP address here.
- Secondary DNS Address: After selecting the Enter DNS Manually option for the DNS Mode, enter the secondary DNS IP address here. This field is optional.

Click the **Save Settings** button to accept the changes made.

Click the **Don't Save Settings** button to discard the changes made.

TNTEDNET	COMMERCI	
INTERNET	CONNEC	

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

My Internet Connection is : PPPoA (Username / Password) V

PPPOA INTERNET CONNECTION TYPE :

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

Username :					
Password :					
Verify Password :					
Reconnect Mode :	Always on				
	🔿 On demand 🔿 Manual				
Maximum Idle Time :	5 (minutes, 0=infinite)				
DNS Mode :	Receive DNS from ISP ○ Enter DNS Manually				
Primary DNS Server :					
Secondary DNS Server :	(optional)				
Save Settings					

Internet Connection Type – Bridge

In this section we can configure the Internet connection type. Parameters available for configuration are the following:

My Internet Connection is: Select the Internet connection type here. Options to choose from are Static IP, Dynamic IP (DHCP), PPPoE (Username/Password), PPPoA (Username/Password), and Bridge. This section will explain the parameters that are available after selecting the Bridge option.

Note: Enabling this Internet connection method will display the routing function of this device.

Click the **Save Settings** button to accept the changes made.

Click the **Don't Save Settings** button to discard the changes made.

INTERNET CON	NECTION TYPE
Choose the mo My Interne	le to be used by the router to connect to the Internet. t Connection is : Bridge
Save Settings	Don't Save Settinos

Wireless Settings

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

On this page we can configure services related to the Wireless connectivity of this product.

	0				
SL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
NTERNET	WIRELESS SETTINGS	5			Helpful Hints
VIRELESS SETTINGS IETWORK SETTINGS TORAGE	The following Web-base wireless device connect Before launching these Installation Guide includ	ed wizards are designed to ion. wizards, please make sure ded in the package.	assist you in your wireless you have followed all step:	network setup and s outlined in the Quick	 If you already have a wireless network setup with Wi-Fi Protected Setup, click on Add Wireless Device with
IEDIA SERVER	WIRELESS NETWOR	K SETUD WIZARD			WPS to add new device to your wireless network.
pv6 tydlink settings	This wizard is designed by-step instructions on Note: Some changes m your wireless client ada ADD WIRELESS DEVI This wizard is designed will guide you through s the button below to beg	to assist you in your wireles Wireless Connect Wireless Connect wireless Connect wireless Connect wireless Connect wireless they can still conn CE WITH WPS (WI-FI FI to assist you in connecting step-by-step instructions or jin. Add Wireless D	ess network setup. It will gi s network and how to mak ion Setup Wizard d may require you to chan ect to the D-Link Router. ROTECTED SETUP) WIZ your wireless device to yo how to get your wireless evice with WPS	uide you through step- e it secure. ge some settings on (ARD ur wireless router. It device connected. Click	If you are new to wireless networking and have never configured a vireless router before, cick on Wireless Connection Setup Witzard and the router will guide you through a few simple steps to get your self an advanced a wireless network up and running. If you consider yourself an advanced a wireless router before, cick Manual Wireless Connection Setup to input all the settings manually. More
	MANUAL WIRELESS I If your wireless network wireless network will de wireless settings of you Network Setup button b	NETWORK SETUP k is already set up with Wi- stroy the existing wireless rew D-Link Systems Roul selow. Manual Wireless	Fi Protected Setup, manua network. If you would like er manually, then click on Connection Setup	l configuration of the to configure the the Manual Wireless	

Wireless Network Setup Wizard

Click the **Wireless Connection Setup Wizard** button to initiate the Wireless connection setup wizard.

WIRELESS NETWORK SETUP WIZARD

This wizard is designed to assist you in your wireless network setup. It will guide you through stepby-step instructions on how to set up your wireless network and how to make it secure.

Wireless Connection Setup Wizard

Note: Some changes made using this Setup Wizard may require you to change some settings on your wireless client adapters so they can still connect to the D-Link Router.

After clicking the **Wireless Connection Setup Wizard** button, the following page will be available.

This wizard will guide user through a step-by-step wizard, divided into 2 steps, to configure the Wireless connectivity used by this router.

1)- hTh C	_	_		
		<u> </u>		1

Give your network a name, using up t	o 32 characters.
Network Name (SSID) 2.4GHz :	D-Link DSL-2890AL
Network Name (SSID) 5GHz :	D-Link DSL-2890AL_5GH
To prevent outsiders from accessing y WEP or WPA key) to your network.	our network, the router will automatically assign a security (also called
To prevent outsiders from accessing y WEP or WPA key) to your network. Manually assign a network key	our network, the router will automatically assign a security (also called
To prevent outsiders from accessing y WEP or WPA key) to your network. Manually assign a network key Use this options if you prefer to create Note: All D-Link wireless adapters cur	our network, the router will automatically assign a security (also called e our own key. rently support WPA.
 To prevent outsiders from accessing y WEP or WPA key) to your network. Manually assign a network key Use this options if you prefer to create Note: All D-Link wireless adapters cur 	our network, the router will automatically assign a security (also called : our own key. rently support WPA.

Step 1: Welcome to the D-Link Wireless Security Setup Wizard

In this section, we can configure the following:

- **Network Name (SSID) 2.4GHz:** Enter the wireless network name (SSID), for the 2.4GHz frequency band, here.
- **Network Name (SSID) 5GHz:** Enter the wireless network name (SSID), for the 5GHz frequency band, here.
- Automatically assign a network key: Select this option to automatically assign a wireless network key for each wireless band. The router will automatically generate a strong wireless key.
- Manually assign a network key: Select this option to manually enter a custom wireless security key.

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

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

STEP 1: WELCOME TO THE D-LINK WIRELESS SECURITY SETUP WIZARD Give your network a name, using up to 32 characters. Network Name (SSID) 2.4GHz : D-Link DSL-2890AL Network Name (SSID) 5GHz : D-Link DSL-2890AL_5GH Image: Automatically assign a network key (Recommended) To prevent outsiders from accessing your network, the router will automatically assign a security (also called WEP or WPA key) to your network. Image: Manually assign a network key Use this options if you prefer to create our own key. Note: All D-Link wireless adapters currently support WPA. Image: Prev Next Cancel Save

Step 2: Set Your Wireless Security Password

After selecting to manually assign a network key, the following page will be available. In this section, we can configure the following:

- **Use the same...:** Tick this option to use the same wireless security password on both 2.4GHz and 5GHz bands.
- **2.4GHz Wireless Security Password:** Enter the wireless security password for the 2.4GHz band here.
- **5GHz Wireless Security Password:** Enter the wireless security password for the 5GHz band here.

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

Click the **Prev** button to return to the previous step.

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

STEP 2: SET YOUR WIRELESS SECURITY PASSWORD				
You have selected your security level - you will need to set a wireless security password.				
The WPA (Wi-Fi Protected Access) key must meet one of 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				
Use the same Wireless Security Password on both 2.4GHz and 5GHz band				
2.4Ghz Wireless Security Password :				
5Ghz Wireless Security Password :				
Note: You will need to enter the same password as keys in this step into your wireless clients in order to enable proper wireless communication.				
Prev Next Cancel Save				

Setup Complete

On this page we can view a summary of the Wireless settings for confirmation.

Note: Pay special attention to the **Pre-Shared Key** fields. Wireless clients will need to enter this password to connect to your wireless network.

Click the Save button to save the settings and complete the wizard.

Click the **Prev** button to return to the previous step.

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

SETUP COMPLETE!

Below is a detailed summary of your wireless security settings. Please print this page out, or write the information on a piece of paper, so you can configure the correct settings on your wireless client adapters.

Wireless Band : 2.4GHz Band

Wireless Network Name (SSID) : D-Link DSL-2890AL

Security Mode : Auto (WPA or WPA2) - Personal

Cipher Type : TKIP and AES

Pre-Shared Key : 7d49df6566

Wireless Band : 5GHz Band

Wireless Network Name (SSID) : D-Link DSL-2890AL_5GHz

Security Mode : Auto (WPA or WPA2) - Personal

Next

Cipher Type : TKIP and AES

Pre-Shared Key : 7d49df6566

Prev

Add Wireless Device With WPS Wizard

Click the **Add Wireless Device with WPS** button to initiate the Wi-Fi Protected Setup (WPS) setup wizard.

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

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

Cancel

Save

Add Wireless Device with WPS

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

STEP 1: SELECT CON	FIGURATION METHOD FOR YOUR WIRELESS NETWORK
Please select one of f	following configuration methods and click next to continue.
Auto Select th 	is option if your wireless device supports WPS (Wi-Fi Protected Setup)
Manual Select manually	this option will display the current wireless settings for you to configure the wireless device

Step 1: Select Configuration Method for Your Wireless Network

In this section, we can configure the following:

- **Auto:** Select this option to automatically allow the router and the wireless client to connect to each other by means of WPS.
- **Manual:** Select this option to display the configured wireless settings. This information can then be configured of the wireless clients manually to initiate a wireless connection.

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

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



STEP 2: CONNECT YOUR WIRELESS DEVICE

Step 2: Connect Your Wireless Device

After selecting the **Auto** option, in Step 1, the following page will be available. In this section, we can configure the following:

- **PIN:** Select this option to use the Personal Identification Number (PIN) method to connect the two devices. Enter the PIN number here. Enter the same PIN number at the wireless client software.
- **PBC:** Select this option to use the Push Button Configuration (PBC) method to connect the two devices.

Click the **Connect** button to initiate the WPS connection.

Click the **Prev** button to return to the previous step.

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

After selecting the **PIN** option, in Step 2, the following page will be available.

The router will allow 120 seconds for the WPS connection to initiate.

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 within 120 seconds
◎ РВС
please press the push button on your wireless device and click the below "Connect" Button within 120 seconds
Prev Next Cancel Connect

STEP 2: CONNECT YOUR WIRELESS DEVICE			
Please start WPS on the wireless of Remain time in second: 118	levice you are adding to your wireless network.		
Adding wireless device: Started.			
	Prev Next Cancel Connect		

After selecting the PBC option, in Step 2, the following page will be available.	Press
the WPS button on the wireless client to initiate the connection.	

The router will allow 120 seconds for the WPS connection to initiate.

STEP 2: CONNECT YOUR WIRELESS DEVICE
Please press down the Push Button (physical or virtual) on the wireless device you are adding to your wireless network. Remain time in second: 118
Adding wireless device: Started.
Prev Next Cancel Connect

After successfully connecting the router and the wireless client, by means of WPS, the following page will be available.

Click the **Cancel** button to finish the setup and return to the main menu.

Click the **Wireless Status** button to view information about wireless clients connected to the router.

After selecting the **Manual** option, in Step 1, the following page will be available.

This information can then be configured of the wireless clients manually to initiate a wireless connection.

Click the **Prev** button to return to the previous step.

Click the **Cancel** button to finish the setup and return to the main menu.

Click the **Wireless Status** button to view information about wireless clients connected to the router.

TEP 2: CONNECT YOUR WIRELESS DEVICE
dding wireless device: Succeeded. To add another device click on the Cancel button below or click on the Wireless tatus button to check wireless status.
Prev Next Cancel Wireless Status

STEP 2: CONNECT YOUR WIRELESS DEVICE	
Below is a detailed summary of your wireless security settings. Please print this page out, or write the information on a piece of paper, so you can configure the correct settings on your wireless client adapters.	
2.4 Ghz Frequency	
SSID: D-Link DSL-2890AL	
Security Mode: Auto (WPA or WPA2) - Personal	
Cipher Type: TKIP and AES	
Pre-shared Key: 7d49df6566	
5 Ghz Frequency	
SSID: D-Link DSL-2890AL_5GHz	
Security Mode: Auto (WPA or WPA2) - Personal	
Cipher Type: TKIP and AES	
Pre-shared Key: 7d49df6566	
Prev Next Cancel Wireless Status	

Manual Wireless Network Setup

Click the **Manual Wireless Network Setup** button to access the manual wireless network configuration page.

MANUAL WIRELESS NETWORK SETUP

If your wireless network is already set up with Wi-Fi Protected Setup, manual configuration of the wireless network will destroy the existing wireless network. If you would like to configure the wireless settings of your new D-Link Systems Router manually, then click on the Manual Wireless Network Setup button below.

Manual Wireless Connection Setup

After clicking the **Manual Wireless Connection Setup** button, the following page will be available.

D-Liı	n i c				
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
INTERNET WIRELESS SETTINGS	WIRELESS NETWORK Use this section to confi	gure the wireless settings	for your D-Link router. Plea	ase note that changes	Helpful Hints
NETWORK SETTINGS	made in this section may also need to be duplicated on your wireless client. To protect your privacy you can configure wireless security features. This device supports three wireless security modes including: WEP, WPA and WPA2.			Wireless Network Name is the first step in securing your wireless network. We recommend that you change it to a	
IPV6 MYDLINK SETTINGS	EDIA SERVER When making changes to the WLAN interface, it will be restarted and the WLAN interface might temporarily disconnect. VAL WAY SETTINGS Save Settings Don't Save Settings		familiar name that does not contain any personal information.		
	WIRELESS NETWORK	SETTINGS less Band : 2.4GHz Bar	nd		 Enable Auto Channel Selection let the router can select the best possible channel for your wireless network to operate on.
	Enable Wireless Netwo 802	Wireless : Always ork Name : D-Link DSL-2 .11 Mode : Mixed 802.13	New Schedule 890AL (Also called the In, 802.11g and 802.11b	SSID)	 Enabling Hidden Mode is another way to secure your network. With this option enabled, no wireless clients will be
	Enable Auto Char Wireless Transmis	s Channel : 2.412 GHz -	CH 1 V		able to see your wireless network when they perform a scan to see what's available. In order for your wireless davices
	Chan Visibil	nel Width : 20/40 MHz(A	uto) Invisible		to connect to your router, you will need to manually enter the Wireless Network Name on each device.
	WIRELESS SECURITY Security Mo	MODE			 If you have enabled Wireless Security, make sure you write down the WEP Key or Passphrase that you have

In this section we can configure the following parameters.

- **Enable Wireless:** Tick this option to enable the wireless feature for the 2.4GHz band on this router. Use the drop-down menu to apply a time schedule to this wireless network.
- Wireless Network Name: Enter the wireless network name (SSID) here. This name will be available when wireless clients scan for available wireless networks. However, when the Visibility Status option is set to Invisible, this name will not be visible to wireless clients.
- 802.11 Mode: Here we can select which 802.11 wireless modes to use. Options to choose from are 802.11b only, 802.11g only, 802.11n only, Mixed 802.11g and 802.11b, Mixed 802.11n and 802.11g, and Mixed 802.11n, 802.11g and 802.11b. If you are not sure, select the Mixed 802.11n, 802.11g and 802.11b option.
- **Enable Auto Channel Scan:** Tick this option to allow the router to find and use the wireless channel with the least interference in your environment.

Wireless Channel: Here we can manually select a wireless channel.

Transmission Rate: Here we can select the wireless transmission rate. It is advisable to keep this option on Best.

Channel Width: Here we can select the wireless channel width used. Options to choose from are 20MHz and 20/40MHz (Auto).

Visibility Status: Here we can choose to hide the Wireless SSID by selecting Invisible to hide it and Visible to reveal it.

Wireless Security Mode - None

This router supports four wireless security mode options available in the **Security Mode** drop-down menu for the 2.4GHz band.

The first security mode is called **None**. By selecting this mode, there will be no wireless security applied to your wireless network. This means that anyone with a wireless adapter can connect to your network.

WIRELESS NETWORK SETTINGS

Wireless Band :	2.4GHz Band
Enable Wireless :	Always New Schedule
Wireless Network Name :	D-Link DSL-2890AL (Also called the SSID)
802.11 Mode :	Mixed 802.11n, 802.11g and 802.11b
Enable Auto Channel Scan :	
Wireless Channel :	2.412 GHz - CH 1 💌
Transmission Rate :	Best (automatic) (Mbit/s)
Channel Width :	20/40 MHz(Auto)
Visibility Status :	Visible Invisible

WIRELESS SECURITY MODE
Security Mode : None

WIRELESS SECURITY MODE

Wireless Security Mode - WEP

Wired Equivalent Privacy (WEP) is any entry level wireless security method that we can use to prevent unauthorized wireless access to this router. WEP is not a very secure option, but it is better than no wireless security.

After selecting to use **WEP** as your wireless security mode, the following parameters will be available to configure:

- WEP Key Length: Select the WEP Key Length value used here. Options to choose from are 128 bit (26 hex digits) and 64 bit (10 hex digits).
- Authentication: Select the WEP authentication option here. Options to choose from are Both and Shared Key.
- **WEP Key 1:** Enter a wireless security key here. This key must be configured on all the wireless clients for them to be able to connect to your wireless network.

Security Mode : WEP
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.
If you choose the WEP security option this device will ONLY operate in Legacy Wireless mode (802.11B/G) . This means you will NOT get 11N performance due to the fact that WEP is not supported by the Draft 11N specification.
WEP Key Length : 64 bit (10 hex digits) 💌 (length applies to all keys)
Authentication : Both
WEP Key 1 :

WIRELESS SECURITY MODE

Wireless Security Mode – WPA-Personal

Wi-Fi Protected Access (WPA) is a more advanced wireless security method that we can use to prevent unautherized wireless access to this router. Wi-Fi Protected Access (WPA2) is the most advanced wireless security method that we can use to prevent unautherized wireless access to this router.

WPA Personal does not require an authentication server.

After selecting to use **WPA-Personal** as your wireless security mode, the following parameters will be available to configure:

- WPA Mode: Here we can select which WPA mode to use. Options to choose from are Auto (WPA or WPA2), WPA2 Only, and WPA Only.
- **Cipher Type:** Select the wireless cipher type here. Options to choose from are **TKIP and AES**, **TKIP**, and **AES**.

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

Pre-Shared Key: Enter the WPA-Personal wireless Pre-Shared Key here. This key must be configured on all the wireless clients for them to be able to connect to your wireless network.

Security Mode : WPA-Personal 💌		
WPA		
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 Only mode. This mode uses AES(CCMP) cipher and legacy stations are not allowed access with WPA security. For maximum compatibility, use WPA Only . This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode.		
To achieve better wireless performance use WPA2 Only security mode (or in other words AES cipher).		
WPA Mode : Auto(WPA or WPA2)		
Cipher Type : TKIP and AES -		
Group Key Update Interval : 3600 (seconds)		
PRE-SHARED KEY		
Enter an 8- to 63-character alphanumeric pass-phrase. For good security it should be of ample length and should not be a commonly known phrase. Pre-Shared Key : 7d49df6566		

Wireless Security Mode – WPA-Enterprise

Wi-Fi Protected Access (WPA) is a more advanced wireless security method that we can use to prevent unautherized wireless access to this router. Wi-Fi Protected Access (WPA2) is the most advanced wireless security method that we can use to prevent unautherized wireless access to this router.

WPA-Enterprise requires the use of an external RADIUS server.

After selecting to use **WPA-Enterprise** as your wireless security mode, the following parameters will be available to configure:

- WPA Mode: Here we can select which WPA mode to use. Options to choose from are Auto (WPA or WPA2), WPA2 Only, and WPA Only.
- **Cipher Type:** Select the wireless cipher type here. Options to choose from are **TKIP and AES**, **TKIP**, and **AES**.

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

- **RADIUS server IP Address:** Enter the IP address of the external RADIUS server used here.
- RADIUS server Port: Enter the external RADIUS server port number used here.
- **RADIUS server Shared Secret:** Enter the RADIUS server Shared Secret here. This key must be configured on all the wireless clients for them to be able to connect to your wireless network.
- Click the **Advanced** button to configure settings for an optional secondary RADIUS server.

WIRELESS SECURITY MODE

Security Mode : WPA-Enterprise -

WPA

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 Only** mode. This mode uses AES(CCMP) cipher and legacy stations are not allowed access with WPA security. For maximum compatibility, use **WPA Only**. This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode.

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

WPA Mode : Auto(WPA or WPA2)

Cipher Type : TKIP and AES 💌

Group Key Update Interval : 3600

(seconds)

EAP (802.1X)	
When WPA enterprise is enabled, via a remote RADIUS server.	the router uses EAP (802.1x) to authenticate clients
RADIUS server IP Address :	
RADIUS server Port :	1812
RADIUS server Shared Secret :	
Advanced >>	

After clicking the **Advanced** button, the following parameters are available for configuration:

- Second RADIUS server IP Address: Enter the IP address of the external RADIUS server used here.
- Second RADIUS server Port: Enter the external RADIUS server port number used here.
- Second RADIUS server Shared Secret: Enter the RADIUS server Shared Secret here. This key must be configured on all the wireless clients for them to be able to connect to your wireless network.

In this section we can configure the following parameters.

- **Enable Wireless:** Tick this option to enable the wireless feature for the 5GHz band on this router. Use the drop-down menu to apply a time schedule to this wireless network.
- Wireless Network Name: Enter the wireless network name (SSID) here. This name will be available when wireless clients scan for available wireless networks. However, when the Visibility Status option is set to Invisible, this name will not be visible to wireless clients.
- **802.11 Mode:** Here we can select which 802.11 wireless modes to use. Options to choose from are **802.11a only**, **802.11n only**, **Mixed 802.11a and 802.11n**, and **Mixed 802.11ac**. If you are not sure, select the **Mixed 802.11ac** option.
- **Enable Auto Channel Scan:** Tick this option to allow the router to find and use the wireless channel with the least interference in your environment.

Wireless Channel: Here we can manually select a wireless channel.

Transmission Rate: Here we can select the wireless transmission rate. It is advisable to keep this option on Best.

Channel Width: Here we can select the wireless channel width used. Options to choose from are 20MHz, 20/40MHz (Auto), and 20/40/80MHz (Auto).

Visibility Status: Here we can choose to hide the Wireless SSID by selecting Invisible to hide it and Visible to reveal it.

Wireless Security Mode - None

This router supports three wireless security mode options available in the **Security Mode** drop-down menu for the 5GHz band.

The first security mode is called **None**. By selecting this mode, there will be no wireless security applied to your wireless network. This means that anyone with a wireless adapter can connect to your network.

WIRELESS SECURITY MODE	
Security Mode : None	
Save Settings Don't Save Settings	

<< Advanced	
Optional backup RADIUS server	
Second RADIUS server IP : Address	
Second RADIUS server Port :	1812
Second RADIUS server Shared : Secret	

WIRELESS NETWORK SETTINGS	
5GHz Band	
Always 💌 New Schedule	
D-Link DSL-2890AL_5GF (Also called the SSID)	
Mixed 802.11ac	
5.180 GHz - CH 36 💌	
Best (automatic) 💌 (Mbit/s)	
20/40/80 MHz(Auto)	
💿 Visible 🔘 Invisible	

Wireless Security Mode – WPA-Personal

Wi-Fi Protected Access (WPA) is a more advanced wireless security method that we can use to prevent unautherized wireless access to this router. Wi-Fi Protected Access (WPA2) is the most advanced wireless security method that we can use to prevent unautherized wireless access to this router.

WPA Personal does not require an authentication server.

After selecting to use **WPA-Personal** as your wireless security mode, the following parameters will be available to configure:

- **WPA Mode:** Here we can select which WPA mode to use. Options to choose from are Auto (WPA or WPA2), WPA2 Only, and WPA Only.
- **Cipher Type:** Select the wireless cipher type here. The only option available is AES.

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

Pre-Shared Key: Enter the WPA-Personal wireless Pre-Shared Key here. This key must be configured on all the wireless clients for them to be able to connect to your wireless network.

Click the **Save Settings** button to accept the changes made.

Click the **Don't Save Settings** button to discard the changes made.

WITDEL	FOO OF/	IDTTV	MODE
WIRFI			MUNDE
	LOO OL		TIODE.

Security Mode : WPA-Personal

WPA

PR

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 Only mode. This mode uses AES(CCMP) cipher and legacy stations are not allowed access with WPA security. For maximum compatibility, use WPA Only. This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode.

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

Cipher Type : AES -

Group Key Update Interval : 3600

PRE-SHARED KEY			
Enter an 8- to 63-character alphanumeric pass-phrase. For good security it should be of ample length and should not be a commonly known phrase.			
Pre-Shared Key :	7d49df6566		

Save Settings Don't Save Settings

Wireless Security Mode – WPA-Enterprise

Wi-Fi Protected Access (WPA) is a more advanced wireless security method that we can use to prevent unautherized wireless access to this router. Wi-Fi Protected Access (WPA2) is the most advanced wireless security method that we can use to prevent unautherized wireless access to this router.

WPA-Enterprise requires the use of an external RADIUS server.

After selecting to use **WPA-Enterprise** as your wireless security mode, the following parameters will be available to configure:

- WPA Mode: Here we can select which WPA mode to use. Options to choose from are Auto (WPA or WPA2), WPA2 Only, and WPA Only.
- **Cipher Type:** Select the wireless cipher type here. The only option available is **AES**.
- Group Key Update Interval: Enter the group key update interval value here.
- **RADIUS server IP Address:** Enter the IP address of the external RADIUS server used here.
- RADIUS server Port: Enter the external RADIUS server port number used here.
- **RADIUS server Shared Secret:** Enter the RADIUS server Shared Secret here. This key must be configured on all the wireless clients for them to be able to connect to your wireless network.

Click the **Advanced** button to configure settings for an optional secondary RADIUS server.

Click the **Save Settings** button to accept the changes made.

Click the Don't Save Settings button to discard the changes made.

WIREL	ESS SECU	IRITY M	IODE

Security Mode : WPA-Enterprise

WPA

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 Only** mode. This mode uses AES(CCMP) cipher and legacy stations are not allowed access with WPA security. For maximum compatibility, use **WPA Only**. This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode.

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

WPA Mode : Auto(WPA or WPA2)

Cipher Type : AES 💌

Group Key Update Interval : 3600

(seconds)

EAP (002.1A)	
When WPA enterprise is enabled, via a remote RADIUS server.	, the router uses EAP (802.1x) to authenticate clients
RADIUS server IP Address :	
RADIUS server Port :	1812
RADIUS server Shared Secret :	
Advanced >>	

Save Settings Don't Save Settings

After clicking the **Advanced** button, the following parameters are available for configuration:

- Second RADIUS server IP Address: Enter the IP address of the external RADIUS server used here.
- Second RADIUS server Port: Enter the external RADIUS server port number used here.

Second RADIUS server Shared Secret: Enter the RADIUS server Shared Secret here. This key must be configured on all the wireless clients for them to be able to connect to your wireless network.

<< Advanced	
Optional backup RADIUS server	
Second RADIUS server IP : Address	
Second RADIUS server Port :	1812
Second RADIUS server Shared : Secret	

Network Settings

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

On this page we can configure services related to the Local Area Network connectivity of this product.

	_					
	1 K					
DSL-2890AL	SETUP	ADVANCED	MAI	NTENANCE	STATUS	HELP
INTERNET	NETWORK SETTINGS					Helpful Hints
WIRELESS SETTINGS	Use this section to confi	gure the internal net	vork settings o	f your router and	l also to configure the	 If you already have a
NETWORK SETTINGS	built-in DHCP server to a configured here is the IF	ssign IP addresses t address that vou us	o computers or e to access the	your network. 1 Web-based mar	The IP address that is nagement interface. If	DHCP server on your network or are using
STORAGE	you change the IP addre	ess in this section, yo	u may need to	adjust your PC's	network settings to	static IP addresses on all the devices on your
MEDIA SERVER	Please note that this	section is optional	and you do n	ot need to cha	nge any of the	network, uncheck Enable DHCP Server to
IPV6	settings here to get y	our network up an	d running.			disable this feature.
MYDLINK SETTINGS	Save Settings Don't	Save Settings				If you have devices on your network that
	ROUTER SETTINGS					IP addresses, add a
	Lice this section to confi	auro the internal net	work cottings of	f your routor. Th	o ID addross that is	each such device.
	configured here is the IF you change the IP addre network again.	address that you us ss here, you may ne	e to access the ed to adjust yo	Web-based mar ur PC's network	agement interface. If settings to access the	• More
	Router II	Address : 192.16	3.1.1]		
	Default Sub	net Mask : 255.25	5.255.0]		
	н	ost Name : dlinkro	ıter]		
	Local Dom	ain Name :		(optional)		
	Enable D	NS Relay : 👿				
	DHCP SERVER SETTI	NGS				
	Use this section to confi network.	gure the built-in DHC	P server to ass	ign IP address to	the computers on your	
	Enable DHO	CP Server : 👿				

In this section, the following parameters are available to configure:

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

Default Subnet Mask: Enter the subnet mask used here.

Host Name: Enter the host name here.

Local Domain Name: Enter the local domain name here. This field is optional. **Enable DNS Relay:** Tick this option to enable the DNS relay option.

ROUTER SETTINGS

Use this section to configure the internal network settings of your router. The IP address that is configured here is the IP address that you use to access the Web-based management interface. If you change the IP address here, you may need to adjust your PC's network settings to access the network again.

Router IP Address :	192.168.1.1	
Default Subnet Mask :	255.255.255.0	
Host Name :	dlinkrouter	
Local Domain Name :		(optional)
Enable DNS Relay :	\checkmark	

In this section, the following parameters can be configured:

Enable DHCP Server: Select this option to enable the DHCP Server option.

DHCP IP Address Range: Enter the starting and ending IP address host number value for the DHCP Server pool here.

DHCP Lease Time: Enter the DHCP lease time value used here.

Always broadcast: Tick this option to enable the always broadcast feature.

DHCP SERVER SETTINGS

Use this section to configure the built-in DHCP server to assign IP address to the computers on your network.

Enable DHCP Server	• :	1
--------------------	-----	---

DHCP IP Address Range :	2	to	254	(addresses within the LAN subnet)
-------------------------	---	----	-----	-----------------------------------

DHCP Lease Time : 1440 (minutes)

Always broadcast : 🔽 (compatibility for some DHCP Clients)

In this section, the following parameters can be configured:

Enable: Tick this option to enable the DHCP IP address reservation feature.

- **Computer Name:** Enter the computer's name here. Alternatively select the computer name from the **Computer Name** drop-down menu and click the << button to place it into the textbox.
- IP Address: Enter the IP address that will be reserved for the node here.
- **MAC Address:** Enter the MAC address of the node being reserved here. Click the **Clone Your PC's MAC Address** button to copy and paste your PC's MAC address in the textbox.

ADD DHCP RESERVATION	
Enable :	
Computer Name :	<< Computer Name
IP Address :	
MAC Address :	
	Clone Your PC's MAC Address
	Add / Update Clear

Click the **Add/Update** button to add or update a DHCP reservation entry, based on the information entered. Click the **Clear** button to clear out the information entered in the fields mentioned above.

In this section, a list of DHCP reservations will be display.

Click the icon to modify a specific entry. Click the icon to delete a specific entry.

In this section, a list of dynamic DHCP clients will be displayed.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

DHCP RESERVATIONS LIST						
Enable	Host Name	IP Address	MAC Address			
	Computer	192.168.1.2	10:bf:48:d6:e2:e2	ſ	Ŷ	

NUMBER OF DYNAMIC DHCP CLIENTS					
Host Name	IP Address	MAC Address	Expired Time		
Nick-PC2	192.168.1.2	10:bf:48:d6:e2:e2	23 Hours 59 Minutes		
Save Settings Don't Save Settings					

Storage

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

On this page we can configure services related to the storage media and services used by this product.

DSL-2890AL	SETUP	ADVANCED	MAINTEN	ANCE	STATUS		HELP
INTERNET	STORAGE						Helpful Hints
WIRELESS SETTINGS	Storage File Access allo	ws you to use a web br	owser or ftp clier	t to remotel	y access files store	ed	The Storage page contains information
NETWORK SETTINGS	on an SD card or USB s storage drive, the new	device will appear in the	to the router. Aft e list with a link to	er plugging i b it. You can	n an SD card or U then use this link	to	about the USB storage
STORAGE	connect to the drive ar	nd log in with a user acc	count.				currently plugged into the device.
MEDIA SERVER	SHAREPORT WEB AC	CESS					• More
IPV6	If you would like to cor	figure the Web Access	Service settings	or create use	er accounts, then		
MYDLINK SETTINGS	click on the button bel	ow.					
LOGOUT		Web Access	s Service Setup				
	You can then use this	ink to connect to the d	Irive and log in wi	th a user acc	ount.		
	ETP SERVER ACCESS						
	If you would like to cor click on the button bel	ifigure the FTP Access ! ow.	Service settings o	r create user	accounts, then		
		FTP Access	Service Setup				
	New see these use this			_			
	rou can then use this l	ink to connect to the d	irive and log in wr	in a user acc	ount.		
	Deviles		Tabal Garage	5 C			
	Device		fotal Space	Free Space	e Action		

In the **SharePort Web Access** section, we can configure the SharePort web access settings. Click the **Web Access Service Setup** button to access the SharePort Web Access Configuration page.

Also in this section, users can click on the hyperlinks to access the SharePort Utility to access music, photos, movies and documents found on the storage medium attached. HTTP and HTTPS access is provided.

After clicking the **Web Access Service Setup** button, the following page will be displayed.

SHAREPORT WEB ACCESS

If you would like to configure the Web Access Service settings or create user accounts, then click on the button below.

Web Access Service Setup

You can then use this link to connect to the drive and log in with a user account.

http://192.168.1.1:8181

https://192.168.1.1:4433

2890AL	SETUP	ADVANCED	MAINTENANCE	STA	rus	HELP
INET	STORAGE					Helpful Hints
LESS SETTINGS ORK SETTINGS AGE A SERVER INK SETTINGS UT	SETTINGS Web File Access allows you to use a web browser to remotely access files stored on an SD card or USB storage drive plugged into the router. To use this feature, check the Enable Web File Access checkbox, then use the Admin account or create user accounts to manage access to your storage devices. VER Save Settings Save Settings Don't Save Settings SHAREPORT WEB ACCESS Enable SharePort Web Access : 🕥				The Storage page contains information about the USB storag drivers or 5D cards currently plugged into the device. More	
	HTTPS A Allow Rem WEB ACCESS: 10	ccess Port : 4433 ote Access :	<< User Nam	e 🗸		l
	Verify WEB ACCESS: USER No. User Name	Password : Password : LIST Access Path	Add/Edit	on Edit	Delete	

In this section, the following parameters can be configured:

- Enable SharePort Web Access: Tick this option to enable the SharePort feature.
- **HTTP Access Port:** Enter the HTTP access port number here.
- HTTPS Access Port: Enter the HTTPS access port number here.
- Allow Remote Access: Tick this option to allow remote access to the SharePort feature.

SHAREPORT WEB ACCESS

Enable SharePort Web Access :		
HTTP Access Port :	8181	
HTTPS Access Port :	4433	
Allow Remote Access :		

In this section, the following parameters can be configured:

- **User Name:** Enter the username for the SharePort client account here. Alternatively, select a user from the **User Name** drop-down menu to automatically add a username into the textbox.
- Password: Enter the password for the SharePort client account here.
- Verify Password: Re-enter the password for the SharePort client account here.

Click the Add/Edit button to add or modify the SharePort client account.

In this section, a list of preconfigured SharePort user accounts will be displayed.

Click the icon to modfy the specific account.

Click the icon to delete the specific account.

Click the **Save Settings** button to accept the changes made.

Click the Don't Save Settings button to discard the changes made.

WEB ACCESS: 10 USER CREATION					
User Name :	<< User Name 🗸				
Password :					
Verify Password :	Add/Edit				

WEB	WEB ACCESS: USER LIST							
No.	User Name	Access Path	Permission	Edit	Delete			
1	admin	1	Read/Write					
2	guest	None	Read Only	E	9			
Sav	Save Settings Don't Save Settings							

After clicking the \mathbf{I} icon, the following parameters can be configured:

Folder: Click the **Browse** button to navigate to a folder on the storage medium that will be allowed access to for this user account. Select the **root** option allow this user account to access the root folder on the storage medium.

Permission: Select the access permission for this account here. Options to choose from are **Read Only** and **Read/Write**.

Click the **Append** button to append these settings to a new account.

Click the **OK** button to modify this account.

Click the **Cancel** button to discard the changes made.

After click either the HTTP or HTTPS hyperlink, users will be required to enter the SharePort user account details in the spaces provided.

APPEND NEW FOLDER	
User Name : guest	
Folder: None	Browse
Permission : Read Only 🗸	
Append	
OK Cancel	

D-Lin1		
WEB	FILE ACCESS LOGIN	
Log	n to the web file access server : User Name : Password : Login	

After successful authentication, access to the SharePort utility will be given. Here users can access music, photos, movies, and document from the storage medium attached the USB port of this router.

SharePort [™] Web Access	IE -			
Music	٥			
O Photo	٥			
Movie	٥			
Document	٥			
D-Link				

On the main **Storage** page, in the **FTP Server Access** section, we can configure FTP access to the storage medium attached. Click the **FTP Access Service Setup** button to access the FTP Server Access Configuration page.

Also in this section, users can click on the hyperlinks to access the FTP server, hosted by this router, to provide FTP access to the files on the storage medium attached.

After clicking the **FTP Access Service Setup** button, the following page will be displayed.

FTP SERVER ACCESS

If you would like to configure the FTP Access Service settings or create user accounts, then click on the button below.

FTP Access Service Setup

You can then use this link to connect to the drive and log in with a user account.

ftp://192.168.1.1

D-Lit	1 k°				
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
INTERNET	STORAGE				Helpful Hints
WIRELESS SETTINGS NETWORK SETTINGS STORAGE MEDIA SERVER	FTP Access allows you t storage drive plugged in use the Admin account Save Settings Don'	to use a ftp client to remote nto the router. To use this or create user accounts to t Save Settings	ely access files stored on a feature, check the Allow Ac manage access to your sto	n SD card or USB ccess checkbox, then rage devices.	The Storage page contains information about the USB storage drivers or SD cards currently plugged into the device.
IPV6	FTP SERVER ACCESS				• More
MYDLINK SETTINGS	Allow Loc Allow Remote Max Users Allowed User FTP ACCESS: 32 US U Verify	cal Access : tote Access : ccess Port : 2121 to Log In : 32 Idle time : 300 SER CREATION SER Name : Password : Passwo	second Second	e 🗸	
	FTP ACCESS: USER L	IST Access Path	Permissio	on Edit Delete	
	Save Settings Don't	/ t Save Settings	A		

In this section, the following parameters can be configured:

- Allow Local Access: Select this option to allow the LAN to access to the FTP server.
- Allow Remote Access: Select this option to allow WAN access to the FTP server.
- **Remote Access Port:** After select the Allow Remote Access option, enter the remote access port number here.
- Max Users Allowed to Log In: Enter the number of concurrent users that will be allowed to connect to this FTP server here.
- **User Idle Time:** Enter the user account connection idle time value, in seconds here. After this time has expired, the user will be disconnected from the FTP server.

In this section, the following parameters can be configured:

User Name: Enter the username for the FTP user account here. Alternatively, select a user from the **User Name** drop-down menu to automatically add a username into the textbox.

Password: Enter the password for the FTP user account here.

Verify Password: Re-enter the password for the FTP user account here.

Click the Add/Edit button to add or modify the SharePort client account.

In this section, a list of preconfigured FTP access user accounts will be displayed.

Click the ficon to modfy the specific account.

Click the Sicon to delete the specific account.

Click the Save Settings button to accept the changes made.

Click the Don't Save Settings button to discard the changes made.

-TP	SEI	R٧	ER.	AC	CES

Allow Local Access :	
Allow Remote Access : Remote Access Port : 2121	
Max Users Allowed to Log In : 32	
User Idle time : 300	second

FTP ACCESS: 32 USER CREATIO	N
User Name :	<< User Name V
Password :	
Verify Password :	Add/Edit

FTP ACCESS: USER LIST					
No.	User Name	Access Path	Permission	Edit	Delete
1	admin	1	А		
2	guest	None	None	S	9

After clicking the icon, the following parameters can be configured:
 Folder: Click the Browse button to navigate to a folder on the storage medium that will be allowed access to for this FTP user account. Select the root option allow this FTP user account to access the root folder on the storage medium.
 Permission: Select the access permission for this FTP user account here. Options to choose from are A (Allow Everything), D (Download), U (Upload + Making Directories), O (Overwrite Existing Files), M (Allow Multiple Logins), and E (Allow Erase Operations).
 Click the OK button to modify this account.
 Click the Cancel button to discard the changes made.

R PERMISSION	
User Name:	guest
Folder :	None Browse root
Permission : [A (allows EVERYTHING)
[D (download)
[U (upload + making directories)
[O (overwrite existing files)
[□ M (allows multiple logins)
[E (allows erase operations)
	OK Cancel

Lastly, in the main **Storage** page, a list of connected storage devices will be displayed.

Click the **Unmount** button to safely unmount the storage medium before removing it from the router's USB port.

NUMBER DEVICES:1			
Device	Total Space	Free Space	Action
JetFlash_Transcend_09851	30.8 GB	7.6 GB	unmount

Media Server

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

On this page we can configure the DLNA media server and iTunes server used by this product.

D-Li	nk –				
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
INTERNET	MEDIA SERVER				Helpful Hints
WIRELESS SETTINGS	DLNA (Digital Living Ne	twork Alliance) is the stan	dard for the interoperability	of Network Media	After adding new
NETWORK SETTINGS	Devices (NMDs). The us network connected PC	ser can enjoy multi-media or media devices. The iTur	applications (music, picture nes server will allow iTunes	es and videos) on your software to	router, click the Enable
STORAGE	automatically detect an	d play music from the rout	er.		or Disable button and then save settings.
MEDIA SERVER	NOTE: The shared m	edia may not be secure	. Allowing any devices to	o stream is	• More
IPV6	recommended only o	on secure networks.	7		
MYDLINK SETTINGS	Save Settings Don'	t Save Settings Refresh			
	DLNA SERVER				
	DL	NA Server : @ Eashla	Disable		
	DLNA Ser	ver Name : DSL2890AL	DMS		
		Folder : root			
		1	Brow	vse	
	ITUNES SERVER				
	iTur	nes Server : 🔘 Enable (Disable		
		Folder : root			
		/	Brow	vse	
	Save Settings Don'	t Save Settings			

In this section, the following parameters can be configured:

- **DLNA Server:** Select to enable or disable the DLNA server option here.
- **DLNA Server Name:** Enter the DLNA media server name here. This name will be used by DLNA clients to identify and connect to the DLNA server.
- **Folder:** This parameter specifies the DLNA shared media folder path. Tick the **root** option to allow access to all files and folders on the storage device. Alternatively, click the **Browse** button to navigate to a specific folder that can be shared.

DLNA SERVER DLNA Server : DENable DIsable DLNA Server Name : DSL2890AL_DMS Folder : root / Browse

In this section, the following parameters can be configured:

iTunes Server: Select to enable or disable the iTunes server option here.

Folder: This parameter specifies the iTunes server shared media folder path. Tick the **root** option to allow access to all files and folders on the storage device. Alternatively, click the **Browse** button to navigate to a specific folder that can be shared.

Click the **Save Settings** button to accept the changes made.

Click the **Don't Save Settings** button to discard the changes made.

ITUNES SERVER	
iTunes Server: @ Folder: [/	 Enable Disable root Browse Browse
Save Settings Don't Save Settings	

IPv6

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

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

	nik –				
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
INTERNET	IPV6 INTERNET CON	NECTION			Helpful Hints
WIRELESS SETTINGS	There are two ways to s	et up your IPv6 Internet c	onnection. You can use the	e Web-based IPv6	 If you are new to
NETWORK SETTINGS	Internet Connection Set	up Wizard, or you can mar	ually configure the connec	tion.	networking and have never configured a router
STORAGE	IPV6 INTERNET CON	NECTION SETUP WIZAR	D		before, click on IPv6
MEDIA SERVER					Setup Wizard and the
IPV6	If you would like to utili D-Link Systems Router 1	ze our easy to use Web-ba	sed Wizard to assist you in	connecting your new	through a few simple
MYDLINK SETTINGS	D Link Systems Router	IDef Internet Conn	utian Catua Winard		steps to get your network up and running.
	Note: Before launching Quick Installation Guide	the wizards, please make included in the package.	sure you have followed all	steps outlined in the	If you consider yourself an advanced user and have configured a router before,click Manual IPv6 Internet Connection Setup to isput all the settings
	MANUAL IPV6 LOCAL	CONNECTIVITY SETUP			manually.
	If you would like to con on the button below.	figure the IPv6 local conne	ctivity settings of your D-Li ectivity Settings	ink Router, then click	• More
	MANUAL IPV6 INTER	NET CONNECTION SET	IP		
	If you would like to con click on the button belo	figure the IPv6 Internet set N. Manual IPv6 Interne	tings of your new D-Link R	Router manually, then	

Click the **IPv6 Internet Connection Setup Wizard** button to initiate the IPv6 Internet connection setup wizard.

IPV6 INTERNET CONNECTION SETUP WIZARD

If you would like to utilize our easy to use Web-based Wizard to assist you in connecting your new D-Link Systems Router to the IPv6 Internet, click on the button below.

IPv6 Internet Connection Setup Wizard

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

After clicking the **IPv6 Internet Connection Setup Wizard** button, the following page will be available.

WELCOME TO THE	E D-LINK IPV6 INTERNET CONNECTION SETUP WIZARD
This wizard will g connect to the IP	uide you through a step-by-step process to configure your new D-Link router and v6 Internet.
 Step 1: Config Step 2: Save 5 	ure your IPv6 Internet Connection Settings and Connect
	-

Welcome to the D-Link IPv6 Internet Connection Setup Wizard

This wizard will guide user through a step-by-step wizard, divided into 2 steps, to configure the IPv6 Internet connectivity used by this router.

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

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

WELCOME TO THE D-LINK IPV6 INTERNET CONNECTION SETUP WIZARD			
This wizard will guide you through a step-by-step process to configure your new D-Link router and connect to the IPv6 Internet.			
 Step 1: Configure your IPv6 Internet Connection Step 2: Save Settings and Connect 			
Prev Next Cancel Connect			

Step 1: Configure Your IPv6 Internet Connection

In this step, we can select an IPv6 Internet connection type from the list provided. In this section, we can configure the following:

- **IPv6 over PPPoE:** Select this option to configure an IPv6 Internet connection that requires a PPPoE username and password.
- **Static IPv6 address and Route:** Select this option to configure an IPv6 Internet connection that requires manually configuring the IPv6 address information.
- **Tunneling Connection (6rd):** Select this option to configure an IPv6 Internet connection that requires manually configuring the 6rd automatic tunneling mechanism.

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

Click the **Prev** button to return to the previous step.

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

After selecting the **IPv6 over PPPoE** option, we can configure the following parameters:

PPPoE Session: Select the PPPoE session used here. To share this connection with IPv4, select the **Share with IPv4** option. To create a new connection, select the **Create a new session** option.

User Name: Enter the IPv6 PPPoE username here.

Password: Enter the IPv6 PPPoE password here.

Verify Password: Enter the IPv6 PPPoE password here again to verify.

Service Name: Enter the service name here. This field is optional.

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

Click the **Prev** button to return to the previous step.

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

STEP 1: CONFIGURE YOUR IPV6 INTERNET CONNECTION

Please select your IPv6 Internet Connection type:

IPv6 over PPPoE

Choose this option if your IPv6 Internet connection requires a username and password to get online. Most DSL modems use this type of connection.

Static IPv6 address and Route

Choose this option if your Internet Setup Provider (ISP) provided you with IPv6 Address information that has to be manually configured.

Tunneling Connection (6rd)

Choose this option if your Internet Setup Provider (ISP) provided you a IPv6 Internet Connection by using 6rd automatic tunneling mechanism.

Prev	Next	Cancel	Connect
------	------	--------	---------

SET USERNAME AND PASSWORD CONNEC To set up this connection you will need to	TION (PPPOE) have a Username and Password from your IPv6 Internet
Service Provider. If you do not have this in	formation, 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 N your ISP.	ame. If you do not have or know this information, please contact
Prev	Next Cancel Connect

After selecting the **Static IPv6 address and Route** option, we can configure the following parameters:

- **Use Link-Local Address:** Tick this option to use the link-local address. **IPv6 Address:** Enter the static IPv6 address here.
- Subnet Prefix Length: Enter the IPv6 address prefix length here.
- **Default Gateway:** Enter the default IPv6 gateway address here.
- Primary IPv6 DNS Address: Enter the primary IPv6 DNS address here.
- Secondary IPv6 DNS Address: Enter the primary IPv6 DNS address here.
- LAN IPv6 Address: Enter the LAN IPv6 address here.

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

Click the **Prev** button to return to the previous step.

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

After selecting the **Tunneling Connection (6rd)** option, we can configure the following parameters:

- 6rd IPv6 Prefix: Enter the 6rd IPv6 prefix value here:
- IPv4 Address: Enter the IPv4 address here.
- Mask Length: Enter the IPv4 mask length here.
- Assigned IPv6 Prefix: Enter the assigned IPv6 prefix value here.
- 6rd Border Relay IPv4 Address: Enter the 6rd border relay IPv4 address here.
- IPv6 DNS Server: Enter the IPv6 DNS server address here.

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

Click the **Prev** button to return to the previous step.

Click the $\ensuremath{\textbf{Cancel}}$ button to discard the changes made and return to the main menu.

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 Address :	
Secondary IPv6 DNS Address :	
LAN IPv6 Address :	/64
Prev	Next Cancel Connect

6rd IPv6 Prefix	:	1	
IPv4 Address	. :	Mask Length	:
Assigned IPv6 Prefix	:		
6rd Border Relay IPv4 Address	;:		
IPv6 DNS Server	· :		

After successfully configuring the IPv6 Internet connection, the following page will be available.

Click the **Connect** button to save the settings and reboot the router.

Click the **Prev** button to return to the previous step.

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

Manual IPv6 Local Connectivity Setup

Click the **IPv6 Local Connectivity Settings** button to manually configure the IPv6 local connection.



MANUAL IPV6 LOCAL CONNECTIVITY SETUP

If you would like to configure the IPv6 local connectivity settings of your D-Link Router, then click on the button below.

IPv6 Local Connectivity Settings

After clicking the **IPv6 Local Connectivity Settings** button, the following page will be available.

D-Lit	1k				
	GETUR	ADVANCED	MATNTENANCE	CTATIIC	HEID
INTERNET	IPV6 LOCAL CONNEC	TIVITY SETTINGS	HAINTENANCE		Helpful Hints
WIRELESS SETTINGS NETWORK SETTINGS STORAGE	Use this section to confi is intended for local con Save Settings Don't	ULA is useful for Local IPv6 communications, If you would like to enable it,click Enable ULA. By default ULA is disabled.			
MEDIA SERVER IPV6	IPV6 ULA SETTINGS	• More			
MYDLINK SETTINGS	Ei Use default L L	nable ULA: 🦳 JLA prefix: 📝 JLA Prefix:		/64	
	CURRENT IPV6 ULA S	SETTINGS			
	Current U LAN	ILA Prefix : /64 IPv6 ULA : /64			
	Save Settings Don't	Save Settings			
Enable ULA: Tick this option to enable the Unique Local Address (ULA) feature. **Use default ULA prefix:** Tick this option to us the default ULA prefix value. **ULA Prefix:** Enter the ULA prefix value manually here.

IPV6 ULA SETTINGS

Enable ULA:	V	
Use default ULA prefix :		
ULA Prefix :		/64

In this section, the following parameters can be viewed: **Current ULA Prefix:** Displays the current ULA prefix value used.

LAN IPv6 ULA: Displays the LAN IPv6 ULA.

Click the **Save Settings** button to accept the changes made.

Click the **Don't Save Settings** button to discard the changes made.

Click the **Manual IPv6 Internet Connection Setup** button to access the manual IPv6 Internet connection setup page.

CURRENT IPV6 ULA SETTINGS

Current ULA Prefix : /64

LAN IPv6 ULA : /64

Save Settings Don't Save Settings

MANUAL IPV6 INTERNET CONNECTION SETUP

If you would like to configure the IPv6 Internet settings of your new D-Link Router manually, then click on the button below.

Manual IPv6 Internet Connection Setup

After clicking the **Manual IPv6 Internet Connection Setup** button, the following page will be available.



IPv6 Connection Type – Auto Detection

In this section, the following parameters can be configured:

My IPv6 Connection is: Select the IPv6 Internet connection type that will be used by this router. Options to choose from are Auto Detection, Static IPv6, Autoconfiguration (SLAAC/DHCPv6), PPPoE, IPv6 in IP4 Tunnel, 6to4, 6rd, and Local Connectivity Only. In this section we'll discuss the Auto Detection option.

In this section, the following parameters can be configured:

- **Obtain IPv6 DNS Servers automatically:** Select this option to allow the router to automatically obtain IPv6 DNS server IP addresses.
- Use the following IPv6 DNS Server: Select this option to manually enter the IPv6 DNS server IP addresses.

Primary DNS Server: Enter the primary IPv6 DNS server address here.

Secondary DNS Server: Enter the secondary IPv6 DNS server address here.

IPV6 CONNECTION TYPE	
Choose the mode to be used by the	e router to connect to the IPv6 Internet.
My IPv6 Connection is :	uto Detection

IPV6 DNS SETTINGS
Obtain DNS server address automatically or enter a specific DNS server address.
Obtain IPv6 DNS Servers automatically
Use the following IPv6 DNS Servers
Primary DNS Server :
Secondary DNS Server :

Enable DHCP-PD: Tick this option to enable the DHCP Prefix Delegation feature.

- LAN IPv6 Address: Enter the LAN IPv6 address here.
- LAN IPv6 Link-Local Address: This field will display the LAN IPv6 link-local address.

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.

/64

Enable DHCP-PD : 📝

LAN IPv6 Address	:
------------------	---

LAN IPv6 Link-Local Address : fe80::9294:e4ff:fe3e:951e /64

In this section, the following parameters can be configured:

- Enable Automatic IPv6 address assignment: Tick this option to enable automatic IPv6 address assignment.
- **Enable Automatic DHCP-PD in LAN:** Tick this option to enable automatic DHCP-PD in LAN.
- Autoconfiguration Type: Select the IPv6 auto-configuration type here. Options to choose from are SLAAC+RDNSS, SLAAC+Stateless DHCP, and Stateful DHCPv6.
- **Router Advertisement Lifetime:** After selecting **SLAAC+RDNSS** as the autoconfiguration type, enter the router advertisement lifetime value here.

Click the Save Settings button to accept the changes made.

Click the **Don't Save Settings** button to discard the changes made.

ADDRESS AUTOCONFIGURATION SETTINGS

Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network. You can also enable DHCP-PD to delegate prefixes for routers in your LAN.

Enable Automatic IPv6 address : assignment		
Enable Automatic DHCP-PD in : LAN		
Autoconfiguration Type :	SLAAC+RDNSS	•
Router Advertisement Lifetime :	(minutes)	

- Enable Automatic IPv6 address assignment: Tick this option to enable automatic IPv6 address assignment.
- **Enable Automatic DHCP-PD in LAN:** Tick this option to enable automatic DHCP-PD in LAN.
- Autoconfiguration Type: Select the IPv6 auto-configuration type here. Options to choose from are SLAAC+RDNSS, SLAAC+Stateless DHCP, and Stateful DHCPv6.
- Router Advertisement Lifetime: After selecting SLAAC+Stateless DHCP as the auto-configuration type, enter the router advertisement lifetime value here.

Click the Save Settings button to accept the changes made.

Click the Don't Save Settings button to discard the changes made.

In this section, the following parameters can be configured:

- Enable Automatic IPv6 address assignment: Tick this option to enable automatic IPv6 address assignment.
- **Enable Automatic DHCP-PD in LAN:** Tick this option to enable automatic DHCP-PD in LAN.
- Autoconfiguration Type: Select the IPv6 auto-configuration type here. Options to choose from are SLAAC+RDNSS, SLAAC+Stateless DHCP, and Stateful DHCPv6.
- **IPv6 Address Range (Start):** After selecting **Stateful DHCPv6** as the autoconfiguration type, enter the starting IPv6 address and prefix for the range here.
- IPv6 Address Range (End): After selecting Stateful DHCPv6 as the autoconfiguration type, enter the ending IPv6 address and prefix for the range here.
- **IPv6 Address Lifetime:** After selecting **Stateful DHCPv6** as the auto-configuration type, enter the IPv6 address lifetime value here.

Click the **Save Settings** button to accept the changes made.

Click the **Don't Save Settings** button to discard the changes made.

ADDRESS AUTOCONFIGURATION SETTINGS

Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network. You can also enable DHCP-PD to delegate prefixes for routers in your LAN.

Enable Automatic IPv6 address : assignment	
Enable Automatic DHCP-PD in : LAN	
Autoconfiguration Type :	SLAAC+Stateless DHCP 💌
Router Advertisement Lifetime :	(minutes)

Save Settings Don't Save Settings

ADDRESS AUTOCONFIGURATION SETTINGS

Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network. You can also enable DHCP-PD to delegate prefixes for routers in your LAN.

LAN	
Autoconfiguration Type : Stateful DHCPv6	
IPv6 Address Range (Start) : 📈	::00 3
IPv6 Address Range (End) :	::00 16
IPv6 Address Lifetime : (minutes)	

IPv6 Connection Type – Static IPv6

In this section, the following parameters can be configured:

My IPv6 Connection is: Select the IPv6 Internet connection type that will be used by this router. Options to choose from are Auto Detection, Static IPv6, Autoconfiguration (SLAAC/DHCPv6), PPPoE, IPv6 in IP4 Tunnel, 6to4, 6rd, and Local Connectivity Only. In this section we'll discuss the Static IPv6 option.

In this section, the following parameters can be configured:

- Use Link-Local Address: Tick this option to use the link-local address.
- **IPv6 Address:** After choosing not to use the link-local address, enter the IPv6 address here.
- **Subnet Prefix Length:** After choosing not to use the link-local address, enter the subnet prefix length value here.
- Default Gateway: Enter the default gateway IPv6 address here.
- Primary DNS Server: Enter the primary IPv6 DNS server address here.

Secondary DNS Server: Enter the secondary IPv6 DNS server address here.

IPV6 CONNECTION TYPE

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

My IPv6 Connection is : Static IPv6

WAN IPV6 ADDRESS SETTINGS

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

Use Link-Local Address :		
IPv6 Address :	fe80::9294:e4ff:fe3e:9520	
Subnet Prefix Length :	64	
Default Gateway :		
Primary DNS Server :		
Secondary DNS Server :		

•

/64

In this section, the following parameters can be config	gured:
---	--------

LAN IPv6 Address: Enter the LAN IPv6 address here.

LAN IPv6 Link-Local Address: This field will display the LAN IPv6 link-local address here.

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.

	TDv6	Addr	000	•	
LAN	1 . 40	Auui	633	•	

LAN IPv6 Link-Local Address : fe80::	9294:e4ff:fe3e:951e /64
--------------------------------------	-------------------------

- Enable Automatic IPv6 address assignment: Tick this option to enable automatic IPv6 address assignment.
- Autoconfiguration Type: Select the IPv6 auto-configuration type here. Options to choose from are SLAAC+RDNSS, SLAAC+Stateless DHCP, and Stateful DHCPv6.
- **Router Advertisement Lifetime:** After selecting **SLAAC+RDNSS** as the autoconfiguration type, enter the router advertisement lifetime value here.

Click the **Save Settings** button to accept the changes made.

Click the Don't Save Settings button to discard the changes made.

In this section, the following parameters can be configured:

- Enable Automatic IPv6 address assignment: Tick this option to enable automatic IPv6 address assignment.
- Autoconfiguration Type: Select the IPv6 auto-configuration type here. Options to choose from are SLAAC+RDNSS, SLAAC+Stateless DHCP, and Stateful DHCPv6.

Router Advertisement Lifetime: After selecting **SLAAC+Stateless DHCP** as the auto-configuration type, enter the router advertisement lifetime value here.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

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+RDNSS	•
Router Advertisement Lifetime :	(minutes)	

Save Settings Don't Save Settings

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 : (minutes)

- Enable Automatic IPv6 address assignment: Tick this option to enable automatic IPv6 address assignment.
- Autoconfiguration Type: Select the IPv6 auto-configuration type here. Options to choose from are SLAAC+RDNSS, SLAAC+Stateless DHCP, and Stateful DHCPv6.
- **IPv6 Address Range (Start):** After selecting **Stateful DHCPv6** as the autoconfiguration type, enter the starting IPv6 address and prefix for the range here.
- **IPv6 Address Range (End):** After selecting **Stateful DHCPv6** as the autoconfiguration type, enter the ending IPv6 address and prefix for the range here.
- **IPv6 Address Lifetime:** After selecting **Stateful DHCPv6** as the auto-configuration type, enter the IPv6 address lifetime value here.

Click the **Save Settings** button to accept the changes made.

Click the Don't Save Settings button to discard the changes made.

IPv6 Connection Type – Auto-configuration (SLAAC/DHCPv6)

In this section, the following parameters can be configured:

My IPv6 Connection is: Select the IPv6 Internet connection type that will be used by this router. Options to choose from are Auto Detection, Static IPv6, Autoconfiguration (SLAAC/DHCPv6), PPPoE, IPv6 in IP4 Tunnel, 6to4, 6rd, and Local Connectivity Only. In this section we'll discuss the Auto-configuration (SLAAC/DHCPv6) option.

In this section, the following parameters can be configured:

- **Obtain IPv6 DNS Servers automatically:** Select this option to allow the router to automatically obtain IPv6 DNS server IP addresses.
- Use the following IPv6 DNS Server: Select this option to manually enter the IPv6 DNS server IP addresses.

Primary DNS Server: Enter the primary IPv6 DNS server address here.

Secondary DNS Server: Enter the secondary IPv6 DNS server address here.

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 DHCPv6		
IPv6 Address Range (Start) :	:00	3
IPv6 Address Range (End) :	:00	16
IPv6 Address Lifetime : (minutes)		

Save Settings Don't Save Settings

IPV6 CONNECTION TYPE

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

My IPv6 Connection is : Autoconfiguration(SLAAC/DHCPv6)

IPV6 DNS SETTINGS

Obtain DNS server address automatically or enter a specific DNS server address.

Obtain IPv6 DNS Servers automatically

O Use the following IPv6 DNS Servers

Primary DNS Server :

Secondary DNS Server :

Enable DHCP-PD: Tick this option to enable the DHCP Prefix Delegation feature.

LAN IPv6 Address: Enter the LAN IPv6 address here.

LAN IPv6 Link-Local Address: This field will display the LAN IPv6 link-local address.

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.

/64

Enable DHCP-PD : 📝

: LAN IPv6 Link-Local Address : fe80::9294:e4ff:fe3e:951e /64

In this section, the following parameters can be configured:

- Enable Automatic IPv6 address assignment: Tick this option to enable automatic IPv6 address assignment.
- Enable Automatic DHCP-PD in LAN: Tick this option to enable automatic DHCP-PD in LAN.
- Autoconfiguration Type: Select the IPv6 auto-configuration type here. Options to choose from are SLAAC+RDNSS, SLAAC+Stateless DHCP, and Stateful DHCPv6.
- Router Advertisement Lifetime: After selecting SLAAC+RDNSS as the autoconfiguration type, enter the router advertisement lifetime value here.

Click the Save Settings button to accept the changes made.

Click the Don't Save Settings button to discard the changes made.

ADDRESS AUTOCONFIGURATION SETTINGS
Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network. You can also enable DHCP-PD to delegate prefixes for routers in your LAN.
Enable Automatic IPv6 address : 📝 assignment
Enable Automatic DHCP-PD in : 📝 LAN
Autoconfiguration Type : SLAAC+RDNSS
Router Advertisement Lifetime : (minutes)

- Enable Automatic IPv6 address assignment: Tick this option to enable automatic IPv6 address assignment.
- **Enable Automatic DHCP-PD in LAN:** Tick this option to enable automatic DHCP-PD in LAN.
- Autoconfiguration Type: Select the IPv6 auto-configuration type here. Options to choose from are SLAAC+RDNSS, SLAAC+Stateless DHCP, and Stateful DHCPv6.
- Router Advertisement Lifetime: After selecting SLAAC+Stateless DHCP as the auto-configuration type, enter the router advertisement lifetime value here.

Click the Save Settings button to accept the changes made.

Click the Don't Save Settings button to discard the changes made.

In this section, the following parameters can be configured:

- Enable Automatic IPv6 address assignment: Tick this option to enable automatic IPv6 address assignment.
- **Enable Automatic DHCP-PD in LAN:** Tick this option to enable automatic DHCP-PD in LAN.
- Autoconfiguration Type: Select the IPv6 auto-configuration type here. Options to choose from are SLAAC+RDNSS, SLAAC+Stateless DHCP, and Stateful DHCPv6.
- **IPv6 Address Range (Start):** After selecting **Stateful DHCPv6** as the autoconfiguration type, enter the starting IPv6 address and prefix for the range here.
- IPv6 Address Range (End): After selecting Stateful DHCPv6 as the autoconfiguration type, enter the ending IPv6 address and prefix for the range here.
- **IPv6 Address Lifetime:** After selecting **Stateful DHCPv6** as the auto-configuration type, enter the IPv6 address lifetime value here.

Click the **Save Settings** button to accept the changes made.

Click the **Don't Save Settings** button to discard the changes made.

ADDRESS AUTOCONFIGURATION SETTINGS

Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network. You can also enable DHCP-PD to delegate prefixes for routers in your LAN.

Enable Automatic IPv6 address : assignment	
Enable Automatic DHCP-PD in : LAN	
Autoconfiguration Type :	SLAAC+Stateless DHCP
Router Advertisement Lifetime :	(minutes)

Save Settings Don't Save Settings

ADDRESS AUTOCONFIGURATION SETTINGS

Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network. You can also enable DHCP-PD to delegate prefixes for routers in your LAN.

Enable Automatic IPv6 address : assignment			
Enable Automatic DHCP-PD in : LAN			
Autoconfiguration Type :	Stateful DHCPv6		
IPv6 Address Range (Start) :	X000X	::00	3
IPv6 Address Range (End) :	X000X	::00	16
IPv6 Address Lifetime :	(minutes)		

IPv6 Connection Type – PPPoE

In this section, the following parameters can be configured:

My IPv6 Connection is: Select the IPv6 Internet connection type that will be used by this router. Options to choose from are Auto Detection, Static IPv6, Autoconfiguration (SLAAC/DHCPv6), PPPoE, IPv6 in IP4 Tunnel, 6to4, 6rd, and Local Connectivity Only. In this section we'll discuss the PPPoE option.

In this section, the following parameters can be configured:

- **PPPoE Session:** Select the PPPoE session used here. To share this connection with IPv4, select the **Share with IPv4** option. To create a new connection, select the **Create a new session** option.
- Address Mode: Select the PPPoE address mode here. Options to choose from are Dynamic IP and Static IP.
- **IP Address:** After selecting the **Static IP** option as the address mode, enter the static IPv6 address here.
- User Name: Enter the IPv6 PPPoE username here.
- Password: Enter the IPv6 PPPoE password here.
- Verify Password: Enter the IPv6 PPPoE password here again to verify.
- Service Name: Enter the service name here. This field is optional.
- **Reconnect Mode:** Select this reconnect mode here. Options to choose from are **Always on**, **On demand**, and **Manual**.
- Maximum Idle Time: Enter the maximum idle time value here.
- MTU: Enter the Maximum Transmission Unit (MTU) value here.

In this section, the following parameters can be configured:

- **Obtain IPv6 DNS Servers automatically:** Select this option to allow the router to automatically obtain IPv6 DNS server IP addresses.
- Use the following IPv6 DNS Server: Select this option to manually enter the IPv6 DNS server IP addresses.

Primary DNS Server: Enter the primary IPv6 DNS server address here.

Secondary DNS Server: Enter the secondary IPv6 DNS server address here.

IPV6 CONNECTION TYPE

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

My IPv6 Connection is : PPPoE

PPPOE INTERNET CONNECTION TYPE :

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

PPPoE Session :	Share with IPv4 Create a new session
Address Mode :	Oynamic IP Static IP
IP Address :	
Username :	
Password :	
Verify Password :	
Service Name :	(optional)
Reconnect Mode :	Always on On demand Manual
Maximum Idle Time :	(minutes, 0=infinite)
MTU :	1492 (bytes) MTU default = 1492

•



Obtain DNS server address automatically or enter a specific DNS server address.

Obtain IPv6 DNS Servers automatically

Ose the following IPv6 DNS Servers

Primary DNS Server :	
Secondary DNS Server :	

Enable DHCP-PD: Tick this option to enable the DHCP Prefix Delegation feature.

LAN IPv6 Address: Enter the LAN IPv6 address here.

LAN IPv6 Link-Local Address: This field will display the LAN IPv6 link-local address.

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.

/64

Enable DHCP-PD :

LAN IPv6 Address :

LAN IPv6 Link-Local Address : fe80::9294:e4ff:fe3e:951e /64

In this section, the following parameters can be configured:

- Enable Automatic IPv6 address assignment: Tick this option to enable automatic IPv6 address assignment.
- Autoconfiguration Type: Select the IPv6 auto-configuration type here. Options to choose from are SLAAC+RDNSS, SLAAC+Stateless DHCP, and Stateful DHCPv6.
- **Router Advertisement Lifetime:** After selecting **SLAAC+RDNSS** as the autoconfiguration type, enter the router advertisement lifetime value here.

Click the Save Settings button to accept the changes made.

Click the Don't Save Settings button to discard the changes made.

In this section, the following parameters can be configured:

- Enable Automatic IPv6 address assignment: Tick this option to enable automatic IPv6 address assignment.
- Autoconfiguration Type: Select the IPv6 auto-configuration type here. Options to choose from are SLAAC+RDNSS, SLAAC+Stateless DHCP, and Stateful DHCPv6.
- **Router Advertisement Lifetime:** After selecting **SLAAC+Stateless DHCP** as the auto-configuration type, enter the router advertisement lifetime value here.

Click the Save Settings button to accept the changes made.

Click the Don't Save Settings button to discard the changes made.

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+RDNSS
Router Advertisement Lifetime : (minutes)
Save Settings Don't Save Settings

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 : (minutes)

- Enable Automatic IPv6 address assignment: Tick this option to enable automatic IPv6 address assignment.
- Autoconfiguration Type: Select the IPv6 auto-configuration type here. Options to choose from are SLAAC+RDNSS, SLAAC+Stateless DHCP, and Stateful DHCPv6.
- **IPv6 Address Range (Start):** After selecting **Stateful DHCPv6** as the autoconfiguration type, enter the starting IPv6 address and prefix for the range here.
- **IPv6 Address Range (End):** After selecting **Stateful DHCPv6** as the autoconfiguration type, enter the ending IPv6 address and prefix for the range here.
- **IPv6 Address Lifetime:** After selecting **Stateful DHCPv6** as the auto-configuration type, enter the IPv6 address lifetime value here.

Click the Save Settings button to accept the changes made.

Click the **Don't Save Settings** button to discard the changes made.

IPv6 Connection Type – IPv6 in IPv4 Tunnel

In this section, the following parameters can be configured:

My IPv6 Connection is: Select the IPv6 Internet connection type that will be used by this router. Options to choose from are Auto Detection, Static IPv6, Autoconfiguration (SLAAC/DHCPv6), PPPoE, IPv6 in IP4 Tunnel, 6to4, 6rd, and Local Connectivity Only. In this section we'll discuss the IPv6 in IPv4 Tunnel option.

In this section, the following parameters can be configured:

- **Remote IPv4 Address:** Enter the remote IPv4 address here.
- Remote IPv6 Address: Enter the remote IPv6 address here.
- Local IPv4 Address: Enter the local IPv4 address here.
- Local IPv6 Address: Enter the local IPv6 address here.
- Subnet Prefix Length: Enter the subnet prefix length value here.

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 DHCPv6	
IPv6 Address Range (Start) : 30000	::00 3
IPv6 Address Range (End) : DOOX	::00 16
IPv6 Address Lifetime : (minutes)	

Save Settings Don't Save Settings

IPV6 CONNECTION TYPE
Choose the mode to be used by the router to connect to the IPv6 Internet.
My IPv6 Connection is : IPv6 in IPv4 Tunnel

IPV6 IN IPV4 TUNNEL SETTINGS

Enter the IPv6 in IPv4 Tunnel information provided by your Tunnel Broker.

Remote IPv4 Address :	
Remote IPv6 Address :	
Local IPv4 Address :	
Local IPv6 Address :	
Subnet Prefix Length:	

- **Obtain IPv6 DNS Servers automatically:** Select this option to allow the router to automatically obtain IPv6 DNS server IP addresses.
- Use the following IPv6 DNS Server: Select this option to manually enter the IPv6 DNS server IP addresses.

Primary DNS Server: Enter the primary IPv6 DNS server address here.

Secondary DNS Server: Enter the secondary IPv6 DNS server address here.

IPV6 DNS SETTINGS

Obtain DNS server address automatically or enter a specific DNS server address.

Obtain IPv6 DNS Servers automatically

O Use the following IPv6 DNS Servers

Primary DNS Server :

Secondary DNS Server :

In this section, the following parameters can be configured:

Enable DHCP-PD: Tick this option to enable the DHCP Prefix Delegation feature. **LAN IPv6 Address:** Enter the LAN IPv6 address here.

LAN IPv6 Link-Local Address: This field will display the LAN IPv6 link-local address.

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 :

LAN IPv6 Link-Local Address : fe80::9294:e4ff:fe3e:951e /64

In this section, the following parameters can be configured:

Enable Automatic IPv6 address assignment: Tick this option to enable automatic IPv6 address assignment.

- Autoconfiguration Type: Select the IPv6 auto-configuration type here. Options to choose from are SLAAC+RDNSS, SLAAC+Stateless DHCP, and Stateful DHCPv6.
- **Router Advertisement Lifetime:** After selecting **SLAAC+RDNSS** as the autoconfiguration type, enter the router advertisement lifetime value here.

Click the Save Settings button to accept the changes made.

Click the Don't Save Settings button to discard the changes made.

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+RDNSS
Router Advertisement Lifetime : (minutes)
Save Settings Don't Save Settings

/64

- Enable Automatic IPv6 address assignment: Tick this option to enable automatic IPv6 address assignment.
- Autoconfiguration Type: Select the IPv6 auto-configuration type here. Options to choose from are SLAAC+RDNSS, SLAAC+Stateless DHCP, and Stateful DHCPv6.
- Router Advertisement Lifetime: After selecting SLAAC+Stateless DHCP as the auto-configuration type, enter the router advertisement lifetime value here.

Click the **Save Settings** button to accept the changes made.

Click the Don't Save Settings button to discard the changes made.

In this section, the following parameters can be configured:

- Enable Automatic IPv6 address assignment: Tick this option to enable automatic IPv6 address assignment.
- Autoconfiguration Type: Select the IPv6 auto-configuration type here. Options to choose from are SLAAC+RDNSS, SLAAC+Stateless DHCP, and Stateful DHCPv6.
- **IPv6 Address Range (Start):** After selecting **Stateful DHCPv6** as the autoconfiguration type, enter the starting IPv6 address and prefix for the range here.
- IPv6 Address Range (End): After selecting Stateful DHCPv6 as the autoconfiguration type, enter the ending IPv6 address and prefix for the range here.
- **IPv6 Address Lifetime:** After selecting **Stateful DHCPv6** as the auto-configuration type, enter the IPv6 address lifetime value here.

Click the **Save Settings** button to accept the changes made.

Click the Don't Save Settings button to discard the changes made.

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 :	(minutes)	

ADDRESS AUTOCONFIGURATION Use this section to setup IPv6 Autoconnetwork.	I SETTINGS	es to t	he com	nputers on your
Enable Automatic IPv6 address : assignment				
Autoconfiguration Type :	Stateful DHCPv6			
IPv6 Address Range (Start) :	20000	::00	3	
IPv6 Address Range (End) :	20000	::00	16	
IPv6 Address Lifetime :	(minutes)			
Save Settings Don't Save Settings				

IPv6 Connection Type – 6to4

In this section, the following parameters can be configured:

My IPv6 Connection is: Select the IPv6 Internet connection type that will be used by this router. Options to choose from are Auto Detection, Static IPv6, Autoconfiguration (SLAAC/DHCPv6), PPPoE, IPv6 in IP4 Tunnel, 6to4, 6rd, and Local Connectivity Only. In this section we'll discuss the 6to4 option.

In this section, the following parameters can be configured:

6to4 Relay: Enter the 6to4 replay address here.

Primary DNS Server: Enter the primary IPv6 DNS server address here.

Secondary DNS Server: Enter the secondary IPv6 DNS server address here.

IPV6 CONNECTION TYPE

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

My IPv6 Connection is : 6to4

WAN IPV6 ADDRESS SETTINGS

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

-

6to4 Address	:
6to4 Relay	:

Primary DNS Server :

Secondary DNS Server :

In this section, the following parameters can be configured:

LAN IPv6 Address: Enter the LAN IPv6 address here.

LAN IPv6 Link-Local Address: This field displays the LAN IPv6 link-local address.

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 : XXXX:XXXX:XXXX: ::1/64

LAN IPv6 Link-Local Address : fe80::9294:e4ff:fe3e:951e /64

- Enable Automatic IPv6 address assignment: Tick this option to enable automatic IPv6 address assignment.
- Autoconfiguration Type: Select the IPv6 auto-configuration type here. Options to choose from are SLAAC+RDNSS, SLAAC+Stateless DHCP, and Stateful DHCPv6.
- **Router Advertisement Lifetime:** After selecting **SLAAC+RDNSS** as the autoconfiguration type, enter the router advertisement lifetime value here.

Click the **Save Settings** button to accept the changes made.

Click the **Don't Save Settings** button to discard the changes made.

In this section, the following parameters can be configured:

- Enable Automatic IPv6 address assignment: Tick this option to enable automatic IPv6 address assignment.
- Autoconfiguration Type: Select the IPv6 auto-configuration type here. Options to choose from are SLAAC+RDNSS, SLAAC+Stateless DHCP, and Stateful DHCPv6.

Router Advertisement Lifetime: After selecting **SLAAC+Stateless DHCP** as the auto-configuration type, enter the router advertisement lifetime value here.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

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+RDNSS	•
Router Advertisement Lifetime :	(minutes)	

Save Settings Don't Save Settings

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 : (minutes)

- Enable Automatic IPv6 address assignment: Tick this option to enable automatic IPv6 address assignment.
- Autoconfiguration Type: Select the IPv6 auto-configuration type here. Options to choose from are SLAAC+RDNSS, SLAAC+Stateless DHCP, and Stateful DHCPv6.
- **IPv6 Address Range (Start):** After selecting **Stateful DHCPv6** as the autoconfiguration type, enter the starting IPv6 address and prefix for the range here.
- **IPv6 Address Range (End):** After selecting **Stateful DHCPv6** as the autoconfiguration type, enter the ending IPv6 address and prefix for the range here.
- **IPv6 Address Lifetime:** After selecting **Stateful DHCPv6** as the auto-configuration type, enter the IPv6 address lifetime value here.

Click the **Save Settings** button to accept the changes made.

Click the **Don't Save Settings** button to discard the changes made.

IPv6 Connection Type - 6rd

In this section, the following parameters can be configured:

My IPv6 Connection is: Select the IPv6 Internet connection type that will be used by this router. Options to choose from are Auto Detection, Static IPv6, Autoconfiguration (SLAAC/DHCPv6), PPPoE, IPv6 in IP4 Tunnel, 6to4, 6rd, and Local Connectivity Only. In this section we'll discuss the 6rd option.

ADDRESS AUTOCONFIGURATION SETTINGS

Don't Save Settings

Save 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 DHCPv6	
IPv6 Address Range (Start) :	::00 3
IPv6 Address Range (End) :	::00 16
IPv6 Address Lifetime : (minutes)	

IPV6 CONNECTION TYPE
Choose the mode to be used by the router to connect to the IPv6 Internet.
My IPv6 Connection is : 6rd

Enable Hub and Spoke Mode: Tick this option to enable the hub and spoke mode.

6rd Configuration: Select the 6rd configuration option here. Options to choose from are 6rd DHCPv4 option and Manual Configuration.

6rd IPv6 Prefix: Enter the 6rd IPv6 address and prefix value here.

Mask Length: Enter the IPv4 mask length here.

 $\label{eq:constraint} \textbf{6rd Border Relay IPv4 Address:} \ \textbf{Enter the 6rd border relay IPv4 address here}.$

Primary DNS Server: Enter the primary IPv6 DNS server address here.

Secondary DNS Server: Enter the secondary IPv6 DNS server address here.

WAN IPV6 ADDRESS SETTINGS

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

Enable Hub and Spoke Mode :	
6rd Configuration :	6rd DHCPv4 option O Manual Configuration
6rd IPv6 Prefix :	
IPv4 Address :	Mask Length :
Assigned IPv6 Prefix :	
Tunnel Link-Local Address :	
6rd Border Relay IPv4 Address :	
Primary DNS Server :	
Secondary DNS Server :	

In this section, the LAN IPv6 Address and LAN IPv6 Link-Local Address will be displayed.

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 :

LAN IPv6 Link-Local Address : fe80::9294:e4ff:fe3e:951e /64

- Enable Automatic IPv6 address assignment: Tick this option to enable automatic IPv6 address assignment.
- Autoconfiguration Type: Select the IPv6 auto-configuration type here. Options to choose from are SLAAC+RDNSS, SLAAC+Stateless DHCP, and Stateful DHCPv6.
- **Router Advertisement Lifetime:** After selecting **SLAAC+RDNSS** as the autoconfiguration type, enter the router advertisement lifetime value here.

Click the **Save Settings** button to accept the changes made.

Click the Don't Save Settings button to discard the changes made.

In this section, the following parameters can be configured:

- Enable Automatic IPv6 address assignment: Tick this option to enable automatic IPv6 address assignment.
- Autoconfiguration Type: Select the IPv6 auto-configuration type here. Options to choose from are SLAAC+RDNSS, SLAAC+Stateless DHCP, and Stateful DHCPv6.

Router Advertisement Lifetime: After selecting SLAAC+Stateless DHCP as the auto-configuration type, enter the router advertisement lifetime value here.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

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+RDNSS	•
Router Advertisement Lifetime :	(minutes)	

Save Settings Don't Save Settings

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 : (minutes)

- Enable Automatic IPv6 address assignment: Tick this option to enable automatic IPv6 address assignment.
- Autoconfiguration Type: Select the IPv6 auto-configuration type here. Options to choose from are SLAAC+RDNSS, SLAAC+Stateless DHCP, and Stateful DHCPv6.
- **IPv6 Address Range (Start):** After selecting **Stateful DHCPv6** as the autoconfiguration type, enter the starting IPv6 address and prefix for the range here.
- **IPv6 Address Range (End):** After selecting **Stateful DHCPv6** as the autoconfiguration type, enter the ending IPv6 address and prefix for the range here.
- **IPv6 Address Lifetime:** After selecting **Stateful DHCPv6** as the auto-configuration type, enter the IPv6 address lifetime value here.

Click the **Save Settings** button to accept the changes made.

Click the **Don't Save Settings** button to discard the changes made.

IPv6 Connection Type – Local Connectivity Only

In this section, the following parameters can be configured:

My IPv6 Connection is: Select the IPv6 Internet connection type that will be used by this router. Options to choose from are Auto Detection, Static IPv6, Autoconfiguration (SLAAC/DHCPv6), PPPoE, IPv6 in IP4 Tunnel, 6to4, 6rd, and Local Connectivity Only. In this section we'll discuss the Local Connectivity Only option.

ADDRESS AUTOCONFIGURATION SETTINGS

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

Autoconfiguration Type : Stateful DHCPv6 IPv6 Address Range (Start) : xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Enable Automatic IPv6 address : 👿 assignment		
IPv6 Address Range (Start) : >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	Autoconfiguration Type : Stateful DHCPv6		
IPv6 Address Range (End) : xxxx ::00 16 IPv6 Address Lifetime : (minutes)	IPv6 Address Range (Start) : 📈	::00 3	
IPv6 Address Lifetime : (minutes)	IPv6 Address Range (End) : xxxxx	::00 16	
	IPv6 Address Lifetime : (minutes)		

IPV6 CONNECTION TYPE	
Choose the mode to be used by the router to connect to the IPv6 Internet	
My IPv6 Connection is : Local Connectivity Only	

In this section the LAN IPv6 Link-Local Address will be displayed.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

LAN IPV6 ADDRESS SETTINGS

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

LAN IPv6 Link-Local Address : fe80::9294:e4ff:fe3e:951e /64

mydlink[™] Settings

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

On this page we can configure the mydlink[™] settings used by this product.



In this section the current status of the mydlink[™] service is displayed.

MYDLINK

mydlink Service : Non-Registered

mydlink E-mail:

Click the **Register mydlink Service** button to access the mydlink[™] service login or registration page.

REGISTER MYDLINK SERVICE

Register mydlink Service

After clicking the **Register mydlink Service** button, the following page will be available.

The mydlink[™] service allows user to use the mydlink[™] cloud services. These services include online access and management of this device through the mydlink[™] portal website

In this section, the following parameters can be configured:

- Yes, I have a mydlink account: Select this option if you've already registered a mydlink[™] account and simply want to link this product to your account.
- No, I want to register and login with a new mydlink account: Select this option to register a new mydlink[™] account and then login afterwards.

Click the **Next** button to accept the changes made and continue to the next step. Click the **Skip** button to discard the changes made and return to the main page.

anale"	
MYDLINK REGISTRATION	
This device is mydlink-enabled, which allows you to remotely monitor and manage your network through the mydlink.com website, or through the mydlink mobile app. You will be able to check your network speeds, see who is connected, view device browsing history, and receive notifications about new users or intrusion attempts.	
You can register this device with your existing mydlink account. If you do not have one, you can create one now.	
Do you have mydlink account? ◎ Yes, I have a mydlink account. ◎ No, I want to register and login with a new mydlink account.	
Skip Next	
 Yes, I have a mydlink account. No, I want to register and login with a new mydlink account. Skip Next 	

MYDLINK REGISTRATION

This device is mydlink-enabled, which allows you to remotely monitor and manage your network through the mydlink.com website, or through the mydlink mobile app. You will be able to check your network speeds, see who is connected, view device browsing history, and receive notifications about new users or intrusion attempts.

You can register this device with your existing mydlink account. If you do not have one, you can create one now.

Do you have mydlink account? Ves, I have a mydlink account. No, I want to register and login with a new mydlink account.

Skip	Nex
- and b	

After selecting to register a new account, the following page will be available and the following parameters can be configured:

- E-mail Address (Account Name): Enter your e-mail address here.
- Password: Enter the password that you want to use for this account here.
- **Confirm Password:** Enter the password that you want to use for this account here again to verify.
- Last Name: Enter your last name here.
- First Name: Enter your first name here.
- I Accept the mydlink terms and conditions: Tick this option after you've read through the terms and conditions and agreed to them. An internet connection is needed to read through the terms and conditions.

Click the **Skip** button to discard the changes made and return to the main page. Click the **Sign up** button to accept the changes made and continue to the next step. Click the **Prev** button to return to the previous page.

After successfully registering your new mydlink[™] account the following page will be available. A verification e-mail will be sent to your e-mail account. After verifying your e-mail account, you can click the **Login** button.

Click the **Skip** button to return to the main page.

MYDLINK REGISTRATION	
Please fulfill the options to complete the registration.	
E mail Address (Assount Nama)	
Password :	
Confirm Password :	
Last name :	
First Name :	
I Accept the mydlink terms and conditions.	
Skip Prev Sign up	

MYDLINK REGISTRATION
To complete your mydlink registration, please check your Inbox for an email with confirmation instructions. After confirming your email address, click the Login button.
Skip Login

Aftor	clicking to	Login	hutton	tho	following	0000	will bo	availabla	
Allei	CIICKING LO	LUGIII	bullon,	uie	lonowing	page	will be	avaliable.	

Enter your **E-Mail Address (Account Name)** and **Password** in the spaces provided and click on the **Login** button.

Click the **Skip** button to return to the main page. Click the **Prev** button to return to the previous page.

MYDLINK REGISTRA	TION
E-mail Address (/	Account Name) : Password :
	Skip Prev Login

After successfully registering this router to your mydlink[™] service, this page will be displayed.

D-Li1	1k				\prec
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
INTERNET	MYDLINK SETTINGS				
WIRELESS SETTINGS	Setting and registering				
NETWORK SETTINGS	features, including onlir	ydlink portal website.			
STORAGE	MYDLINK				
MEDIA SERVER	mudli	k Comico + Desistered			
IPV6	myali	ik Service : Registered			
MYDLINK SETTINGS	myai	INK E-Mail :			
	REGISTER MYDLINK	SERVICE			
		Register m	ydlink Service		

Advanced Category

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

The following pages can be found in the Advanced category:

- Virtual Server On this page we can configure the virtual server settings of this router.
- **Port Forwarding** On this page we can configure the port forwarding settings of this router.
- **Port Triggering** On this page we can configure the port triggering settings of this router.
- **QoS Engine** On this page we can configure the Quality of Service (QoS) engine used by this router.
- **Network Filtering** On this page we can configure the network filtering rules used by this router.
- Access Control On this page we can configure access control rules used by this router.
- Website Filter On this page we can configure website filtering rules used by this router.
- **Inbound Filter** On this page we can configure inbound filtering rules used by this router.
- **Firewall Settings** On this page we can configure the firewall settings of this router.
- **Routing** On this page we can configure IPv4 routing rules used by this router.
- Advanced Wireless On this page we can configure more advanced wireless settings on this router.
- Wi-Fi Protected Setup On this page we can configure the Wi-Fi Protected Setup (WPS) settings on this router.
- Advanced Network On this page we can configure more advanced network settings on this router.
- Guest Wi-Fi On this page we can configure the guest Wi-Fi settings of this router.
- IPv6 Firewall On this page we can configure the IPv6 firewall rules used by this router.
- IPv6 Routing On this page we can configure the IPv6 routing rules used by the router.

SL-2890AL	SETUP	ADVANCED	MAINTENA	NCE	STATUS	HELP
IRTUAL SERVER	VIRTUAL SERVE	R				Helpful Hints
ORT FORWARDING	The Virtual Server	option allows you to define a sin	gle public port o	n your router fo	or redirection to	Check the
ORT TRIGGERING	an internal LAN IF	P Address and Private LAN port if i TP or Web Servers	equired. This fe	ature is useful i	for hosting online	Application Name down menu for a lis
OS ENGINE	Save Settings	Don't Save Settings				predefined server ty If you select one of
ETWORK FILTER	Save Settings	Don't Save Setallys				predefined server ty
CCESS CONTROL	24 - VIRTUAL S	ERVERS LIST				next to the drop do
VEBSITE FILTER						menu to fill out the corresponding field.
NBOUND FILTER	Remaining number	er of rules that can be created: 24				• You can select a
IREWALL SETTINGS			Port	Traffic Type		computer from the DHCP clients in the
OUTING	Name	Application name	Public Port	Protocol Both	Schedule	Computer Name of down menu, or you
DVANCED WIRELESS				Dour	Always	manually enter the address of the com
VI-FI PROTECTED	IP Address	< Computer Name	Private Port		Allow All	at which you would
ETUP	Namo		Dublic Dort	Drotocal	Cchadula	to open the specifie port.
DVANCED NETWORK	Name	<< Application name		Both 💌	Always 💌	Select a schedule
UEST Wi-Fi	IP Address		Private Port		Inbound Filter	will be enabled. If y
PV6 FIREWALL		<< Computer Name	1		Allow All 💌	not see the schedul need in the list of
PV6 ROUTING	Name		Public Port	Protocol	Schedule	schedules, go to the
		<< Application name <]	Both 💌	Always 💌	screen and create a
	IP Address		Private Port		Inbound Filter	schedule.
		< Computer Name			Allow All 🔻	restricts the Interne
	Name		Public Port	Protocol	Schedule	hosts that can acces this virtual server to
		Application name ▼		Both 💌	Always 💌	hosts that you trust
	IP Address		Private Port		Inbound Filter	you need in the list
		Computer Name			Allow All	Advanced -> Inho

Virtual Server

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

On this page we can configure the virtual server settings of this router.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

DSL-2890AL		SETUP	ADVANCED	MAINTENA	NCE	STATUS	HELP
VIRTUAL SERVER	VIF	RTUAL SERVER					Helpful Hints
Port Forwarding Port Triggering Qos Engine Network Filter	The an i serv Sa	e Virtual Server o internal LAN IP A vices such as FTF ave Settings	ption allows you to define a sing ddress and Private LAN port if re 9 or Web Servers. Don't Save Settings	le public port o equired. This fe	n your router fr ature is useful i	r redirection to for hosting online	Check the Application Name (down menu for a list predefined server typ If you select one of th predefined server typ
ACCESS CONTROL WEBSITE FILTER	24 Ren	- VIRTUAL SER	EVERS LIST				click the arrow butto next to the drop dow menu to fill out the corresponding field.
INBOUND FILTER		,		Dout	Troffic Tuno		 You can select a computer from the list
FIREWALL SETTINGS		Namo		Public Dort	Drotocol	Cchadula	DHCP clients in the
ROUTING		Name	<< Application name </td <td>FUDIC FOIL</td> <td>Both 💌</td> <td>Always 💌</td> <td>down menu, or you</td>	FUDIC FOIL	Both 💌	Always 💌	down menu, or you
ADVANCED WIRELESS		IP Address	< Computer Name	Private Port		Inbound Filter Allow All	address of the comp at which you would li to open the specified
ADVANCED NETWORK		Name	<< Application name	Public Port	Protocol Both 💌	Schedule Always 💌	 port. Select a schedule when the virtual serv
GUEST WI-FI		IP Address	< Computer Name	Private Port		Inbound Filter Allow All	will be enabled. If yo not see the schedule need in the list of
PV6 ROUTING		Name	<< Application name	Public Port	Protocol Both 💌	Schedule Always 💌	schedules, go to the Tools -> Schedule screen and create a
		IP Address	<< Computer Name	Private Port		Inbound Filter Allow All	 Select a filter that restricts the Internet
		Name	Application name	Public Port	Protocol	Schedule	hosts that can access this virtual server to

Checkbox: Tick this option to enable the rule.

Name: Enter or select the application name for the rule here.

- IP Address: Enter or select the IP address or computer name for the rule here.
- **Public Port:** Enter the public port number here.
- **Private Port:** Enter the private port number here.
- Protocol: Select the protocol type here. Options to choose from are TCP, UDP, Both, and Other.
- **Schedule:** Select the time schedule option here. Customized time schedules can be created and used.

Inbound Filter: Select the inbound filter option here. Options to choose from are Allow All and Deny All.

24 - VIRTUAL SERVERS LIST

Remaining number of rules that can be created: 24

				Port	Traffic Type	
Na	ame	< Application name	•	Public Port	Protocol Both 💌	Schedule Always 💌
IP	Address	< Computer Name	•	Private Port		Inbound Filter Allow All
Na	ame	< Application name	•	Public Port	Protocol Both 💌	Schedule Always
IP	Address	< Computer Name	•	Private Port		Inbound Filter Allow All

Port Forwarding

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

On this page we can configure the port forwarding settings of this router.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

D-Lit		<								
DSL-2890AL		SETUP	ADVANCED	MAIN	TENANCE	STATUS	HELP			
VIRTUAL SERVER	РО	RT FORWARDING					Helpful Hints			
PORT FORWARDING	Thi	s option is used to o	pen multiple ports or a ran	ge of ports	in your router an	d redirect data	Check the			
PORT TRIGGERING	thre	ough those ports to mat. Port Ranges (1)	a single PC on your networ 00-150), Individual Ports (8	k. This feat 0. 68. 888)	ure allows you to . or Mixed (1020-	enter ports in the 5000, 689), This	Application Name drop -down menu for a list of			
QOS ENGINE	opt	ion is only applicable	to the INTERNET session.	,,,	,		pre-defined applications that you can select from.			
NETWORK FILTER	S	ave Settings Don'	t Save Settings				If you select one of the pre-defined applications.			
ACCESS CONTROL	24						click the arrow button			
WEBSITE FILTER	24	PORT FORWAR	menu to fill out the							
INBOUND FILTER	Rer	naining number of r	ules that can be created: 2	4			 You can select your 			
FIREWALL SETTINGS					Ports to Open		computer from the list of DHCP clients in the			
ROUTING		Name			тср	Schedule	Computer Name drop-			
ADVANCED WIRELESS			Application Na	me 💌		Always 💌	IP address manually of			
WI-FI PROTECTED SETUP		IP Address	Computer Nan	ne 💌	UDP	Inbound Filter Allow All	the computer you would like to open the specified port to.			
ADVANCED NETWORK		Name	_		ТСР	Schedule	 Select a schedule for when the part forwarding 			
GUEST Wi-Fi			< Application Na	me 💌		Always 💌	will be enabled. If you do			
IPV6 FIREWALL		IP Address UDP Inbound Filter								
IPV6 ROUTING			Computer Nan		TOD		schedules, go to the Tools -> Schedules			
		Name	<	me 💌	TCP	Always 💌	screen and create a new schedule.			
		IP Address	Computer Nan	ne 💌	UDP	Inbound Filter	 You can enter ports in various formats:Range (50-100) Individual (80, 			

Checkbox: Tick this option to enable the rule.

Name: Enter or select the application name for the rule here.

- **IP Address:** Enter or select the IP address or computer name for the rule here.
- **TCP:** Enter the TCP port number(s) here. A single port or a range of ports can be entered. Separate ports with a comma or a hyphen.
- **UDP:** Enter the UDP port number(s) here. A single port or a range of ports can be entered. Separate ports with a comma or a hyphen.
- **Schedule:** Select the time schedule option here. Customized time schedules can be created and used.

Inbound Filter: Select Allow All (most common) or a created inbound filter.

24 -- PORT FORWARDING RULES

Remaining number of rules that can be created: 24

		Ports to Open	
Name	<	ТСР	Schedule Always 💌
IP Address	<	UDP	Inbound Filter Allow All
Name	<	ТСР	Schedule Always 💌
IP Address	<< Computer Name	UDP	Inbound Filter Allow All

Port Triggering

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

On this page we can configure the port triggering settings of this router.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

D-Liı	nk	3							
DSL-2890AL		SETUP	ADVANCED	MAINTENAN	CE 9	TATUS	HELP		
VIRTUAL SERVER	POR	TTRIGGERING					Helpful Hints		
PORT FORWARDING PORT TRIGGERING QOS ENGINE	The F sense apply Sav	Port Triggering opt to data sent to the to all computers of the Settings Don'	 Use this feature if you are trying to execute one of the listed network applications and it is not communicating as 						
ACCESS CONTROL	24	PORT TRIGGER		Use the Application					
WEBSITE FILTER				to view a list of pre-					
INBOUND FILTER	Kema	aining number of ri		you can select from. If					
FIREWALL SETTINGS				Port	Traffic Type	Schedule	-defined applications,		
ROUTING		Name	Port Triggering	Irigger	All 🔻	Ahuang	next to the drop-down menu to fill out the		
ADVANCED WIRELESS			ering Name	 Firewall 	All 💌	Andys	appropriate fields. Select a schedule for 		
ADVANCED NETWORK		Name Port Triggering Trigger All • Always • <<							
GUEST Wi-Fi									
IPV6 ROUTING		Name	Port Triggering	Trigger	All		schedule. • More		
			est Port Triggering Name	 Firewall 	All	Always 💌			

- In this section, the following parameters can be configured:
- **Checkbox:** Tick this option to enable the rule.
- Name: Enter or select the application name for the rule here.
- Trigger: Enter the trigger value here.
- Firewall: Enter the firewall value here.
- **Traffic Type:** Select the traffic type from the drop-down menu. Options to choose from are **All**, **TCP**, and **UDP**.
- **Schedule:** Select the time schedule option here. Customized time schedules can be created and used.

24 -- PORT TRIGGERING

Remaining number of rules that can be created: 24



QoS Engine

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

On this page we can configure the Quality of Service (QoS) engine used by this router.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

D.I i					
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
VIRTUAL SERVER	QOS SETTINGS				Helpful Hints
PORT FORWARDING	Use this section to conf	igure D-Link's QoS Engine	powered by QoS Engine T	echnology. This QoS	• Some
PORT TRIGGERING	Engine improves your o over other network traf	nline gaming experience b fic, such as FTP or Web.Fo	y ensuring that your game or best performance, use th	e traffic is prioritized ne Automatic	experimentation and performance
QOS ENGINE	Classification option to	automatically set the prior	ity for your applications.		measurement may be required to converge on
NETWORK FILTER	Save Settings Don'	t Save Settings			the optimal value.
ACCESS CONTROL					• More
WEBSITE FILTER	QUS SETUP				
INBOUND FILTER	E	nable QoS : 📄			
FIREWALL SETTINGS	Upl	ink Speed: 2048 k	bps << Select Transmissi	on Rate 💌	
ROUTING	Downl	ink Speed: 8192 k	bps << Select Transmissi	on Rate 💌	
ADVANCED WIRELESS	Qu	ueue Type : 💿 Strict Pri	iority Queue 🍥 Weighted	Fair Queue	
WI-FI PROTECTED SETUP	Queue ID		Queue Weight		
ADVANCED NETWORK		1	40	%	
GUEST WI-FI		2	30	%	
IPV6 FIREWALL		3	20	%	
IPV6 ROUTING		4	10	%	

Enable QoS: Tick this option to enable the Quality of Service (QoS) engine.

- **Uplink Speed:** Enter the uplink speed value here or select a predefined uplink speed option, from the drop-down menu.
- **Download Speed:** Enter the download speed value here or select a predefined download speed option, from the drop-down menu.
- Queue Type: Select the queue type here. Options to choose from are Strict Priority Queue and Weighted Fair Queue.

QOS SETUP

	Enable QoS : Uplink Speed : Downlink Speed : Queue Type :	 ✓ 2048 k 8192 k ④ Strict Pri 	bps << [bps << [iority Queu	Select Transmission Rate 💌 Select Transmission Rate 💌 e 🔘 Weighted Fair Queue
Queue ID			Queue P	riority
	1			Highest
	2			Higher
	3			Normal
	4			Best Effort(default)

In this section, the following parameters can be configured:

Enable QoS: Tick this option to enable the Quality of Service (QoS) engine.

- **Uplink Speed:** Enter the uplink speed value here or select a predefined uplink speed option, from the drop-down menu.
- **Download Speed:** Enter the download speed value here or select a predefined download speed option, from the drop-down menu.
- Queue Type: Select the queue type here. Options to choose from are Strict Priority Queue and Weighted Fair Queue.
- **Queue Weight:** Enter the queue weight percentage for each queue ID in the spaces provided.

QOS SETUP					
Enable QoS: Uplink Speed: Downlink Speed: Queue Type:	2048 kl 8192 kl Strict Pri	bps << bps << ority Que	Select Trans Select Trans ue Weig	smissio smissio hted F	n Rate 💌 n Rate 💌 air Queue
Queue ID		Queue V	Veight		
1				40	%
2				30	%
3				20	%
4				10	%

Checkbox: Tick this option to enable the rule.

Name: Enter the classification rule's name here.

Queue ID: Select the queue ID that will be used for this rule here.

Protocol: Enter or select the protocol that will be used for this rule here.

- **Local IP Range:** Enter the local IP address range that will be used for this rule here. Two addresses must be specified. The first one is the starting IP address and the second one is the ending IP address in the range.
- **Remote IP Rage:** Enter the remote IP address range that will be used for this rule here. Two addresses must be specified. The first one is the starting IP address and the second one is the ending IP address in the range.
- **Application Port:** Enter or select the application port option that will be used for this rule.

32 -- CLASSIFICATION RULES

Remaining number of rules that can be created: 18

	Name Youtube	Queue ID 1 - Highest	Protocol TCP << ALL 💌		
✓	Local IP Range	to	Application Port		
	Remote IP Range	to	<< ALL		

Network Filter

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

On this page we can configure the network filtering rules used by this router.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

DSL-2890AL	SETUP	ADVA	NCED	MAINT	ENANCE	STATUS	HELP
VIRTUAL SERVER	MAC ADDRESS FILT	ER					Helpful Hints
PORT FORWARDING	The MAC (Media Acces	s Controller) A	Address filter op	tion is use	d to control ne	twork access based on	Create a list of MAC
PORT TRIGGERING	the MAC Address of th manufacturer of the ne	e network ada etwork adapte	pter. A MAC ad r. This feature	dress is a u can be conf	inique ID assig	ned by the W or DENY	addresses and choose whether to allow or deny
QOS ENGINE	network/Internet acce		them access to your network.				
NETWORK FILTER	Save Settings Dor	n't Save Setting	5				 Computers that have obtained an IP address
ACCESS CONTROL	24 MAC FII TERIN	IG RUI ES					from the router's DHCP
WEBSITE FILTER			DHCP Client List. Select a				
INBOUND FILTER	Configure MAC Filtering		device from the drop down menu and click the				
FIREWALL SETTINGS	Turn MAC Flittening OFF		arrow to add that device's MAC to the list.				
ROUTING	Remaining number of	rules that can	be created: 24				• Use the check box on
ADVANCED WIRELESS	MAC Addre	155	DHCP Cli	ent List		Schedule	or disable a particular
WI-FI PROTECTED SETUP		<	Computer Nan	ne 🔻	Always 💌	New Schedule	 Use the Always drop
ADVANCED NETWORK		<	Computer Nan	ne 🔻	Always 💌	New Schedule	down menu if you have previously defined a
GUEST WI-FI			Computer Nan	ne 🔻	Always 💌	New Schedule	schedule in the router. If not, dick on the New
IPV6 FIREWALL			Computer Nan	ne 🔻	Always 💌	New Schedule	Schedule button to add one.
IPV6 ROUTING			Computer Nan	ne 🔻	Always 💌	New Schedule	• More
			Computer Nan	ne 🔻	Always 🔻	New Schedule	
In this section, the following parameters can be configured:

Configure MAC Filtering below: Select the MAC filtering method here. Select the Turn MAC Filtering OFF option to disable this feature. Select the Turn MAC Filtering ON and ALLOW computers listed to access the network option to enable this feature and only allow the computers, by MAC address, to access the network. Select the Turn MAC Filtering ON and DENY computers listed to access the network option to enable this feature and only deny the computers, by MAC address, by MAC address, by MAC address, by MAC address, access to the network.

Checkbox: Tick this option to enable the rule.

MAC Address: Enter the MAC address that will be filtered here.

DHCP Client List: Select the DHCP client, from the drop-down menu, that will be filtered here.

Schedule: Select the time schedule option here. Customized time schedules can be created and used.

24 -- MAC FILTERING RULES

Configure MAC Filtering below:

Turn MAC Filtering ON and ALLOW computers listed to access the network

Remaining number of rules that can be created: 24

MAC Address		DHCP Client List Schedule		
	<<	Computer Name	Always New Schedule	
	<<	Computer Name	Always New Schedule	

Access Control

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

On this page we can configure access control rules used by this router.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

In this section, the following parameters can be configured:

Enable Access Control: Tick this option to enable the access control feature.

Click the **Add Policy** button to initiate the access control rule addition wizard.

	ilk				
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
VIRTUAL SERVER	ACCESS CONTROL	г			Helpful Hints
PORT FORWARDING	The Access Control opt	ion allows you to control a	ccess in and out of your ne	twork. Use this feature	Check Enable
PORT TRIGGERING	as Access Controls to o	nly grant access to approv	ed sites, limit web access b 22P utilities or names	ased on time or dates,	Access Control if you want to enforce rules
QOS ENGINE	Save Settings Don	t Save Settings	21 danaes of games.		that limit Internet access from specific LAN
NETWORK FILTER		- Jord Jotting			computers.
ACCESS CONTROL	ACCESS CONTROL				 Click Add Policy to start the processes of
WEBSITE FILTER	Enable Acce	ss Control : 🕅			creating a rule. You can cancel the process at any
INBOUND FILTER					time. When you are finished creating a rule it
FIREWALL SETTINGS					will be added to the Policy Table below.
ROUTING	Save Settings Don	t Save Settings			Click the Edit icon to
ADVANCED WIRELESS	-	c sure securigs			modify an existing rule using the Policy Wizard.
WI-FI PROTECTED SETUP					Click the Delete icon
ADVANCED NETWORK	-				to permanentity remove a rule.
GUEST Wi-Fi					• More
IPV6 FIREWALL	-				
IPV6 ROUTING					
	-				

ACCESS CONTROL
Enable Access Control:
Add Policy

After clicking the **Add Policy** rule, the following page will be available.



Add New Policy - Wizard

In this step, the application flow of this wizard will be displayed.

Click the **Next** button to accept the changes made and continue to the next step. Click the **Cancel** button to discard the changes made and return to the main page.

ADD NEW POLICY This wizard will guide you through the following steps to add a new policy for Access Control.

- Step 1 Choose a unique name for your policy
- Step 2 Select a schedule
- Step 3 Select the machine to which this policy applies

Prev

Next

Save

Cancel

- Step 4 Select filtering method
- Step 5 Select filters
- Step 6 Configure Web Access Logging

Step 1: Choose Policy Name

In this step, we can configure the policy rule name. The following parameters can be configured:

Policy Name: Enter the access control policy rule name here.

Click the **Prev** button to return to the previous page.

Click the **Next** button to accept the changes made and continue to the next step. Click the **Cancel** button to discard the changes made and return to the main page.

Step 2: Select Schedule

In this step, we can configure the time schedule that will be applied to this rule. The following parameters can be configured:

Schedule: Select the time schedule that will be used for this rule from this dropdown menu.

Details: This field will display the details associated with the time schedule selected.

Click the **Prev** button to return to the previous page.

Click the **Next** button to accept the changes made and continue to the next step. Click the **Cancel** button to discard the changes made and return to the main page.

STEP 1: CHOOSE POLICY NAME	
Choose a unique name for your policy.	
Policy Name :	
Prev Next Save	Cancel

STEP 2: SELECT SCHEDULE	
Choose a schedule to apply to this policy.	
Always Details : Always	
Prev Next Save Cancel	

Step 3: Select Machine

In this step, we can configure which computers will be involved in this access control rule. The following parameters can be configured:

- Address Type: Select the address type option here. Options to choose from are IP, MAC, and Other Machines.
- **IP Address:** After selecting **IP** as the address type, enter the IP address of the local node here.
- Machine Address: After selecting MAC as the address type, enter the MAC address of the local node here. Alternatively, click the Clone Your PC's MAC Address button of insert the MAC address of the computers currently used to access the Web UI.

Click the icon to modify the specific entry.

Click the $\widehat{}$ icon to delete the specific entry.

Click the **Prev** button to return to the previous page.

Click the **Next** button to accept the changes made and continue to the next step.

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

Step 4: Select Filtering Method

In this step, we can select the filtering method that will be applied to this access rule. The following parameters can be configured:

Method: Select the filtering method used here. Select Log Web Access Only, to only allow web access to the nodes specified in the previous step. Select
 Block All Access, to block all access to the network. Select Block Some Access, to block access only to the conditions specified in the next step.

Apply Web Filter: Tick this option to enable web filtering.

Apply Advanced Port Filter: Tick this option to apply advanced port filters.

Click the **Prev** button to return to the previous page.

Click the **Next** button to accept the changes made and continue to the next step. Click the **Cancel** button to discard the changes made and return to the main page.

OTED 2	• GELEC	T MACUTN
SIEP 3	. SELEU	PACHIN

Select the machine to which this policy applies.

Specify a machine with its IP or MAC address, or select 'Other Machines' for machines that do not have a policy.

Address Type :	Address Type : IP MAC Other Machines						
IP Address :	<	Computer Name 💌					
Machine Address :	<	Computer Name 💌					
	Clone Your PC's MAC Addres	s					
	Add Cancel						
Machine							
192.168.1.10			5	1			
Prev	w Next Save	Cancel					

STEP 4: SELECT FILTERING METHOD
Select the method for filtering.
Method : 🔘 Log Web Access Only 🔘 Block All Access 🔘 Block Some Access
Apply Web Filter :
Apply Advanced Port Filters :
Prev Next Save Cancel

Enable: Tick this option to enable the rule.

Name: Enter the name for the rule here.

Step 5: Port Filter

configured:

Dest IP Start: Enter the starting destination IP address used in the rule here.

Dest IP End: Enter the ending destination IP address used in the rule here.

Protocol: Select the protocol type that will be used here. Options to choose from are **ICMP**, **TCP**, and **UDP**.

In this step, we can configure advanced port filters. The following parameters can be

Dest Port Start: Enter the starting destination port number here.

Dest Port End: Enter the ending destination port number here.

Click the **Prev** button to return to the previous page.

Click the **Next** button to accept the changes made and continue to the next step. Click the **Cancel** button to discard the changes made and return to the main page.

inclusion inclusion

STEP 6: CONFIGURE WEB ACCESS LOGGING Web Access Logging :
Disabled Enabled Prev Next Save Cancel

Step 6: Configure Web Access Logging

In this step, we can enable or disable the web access logging feature. The following parameters can be configured:

Web Access Logging: Select to enable or disable the web access logging feature.

Click the **Prev** button to return to the previous page.

Click the **Save** button to accept the changes made and finish the wizard.

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

	ST	EP	5:	PO	RT	FII	TE	R
Г								

Add Port Filters Rules.

Specify rules to prohibit access to specific IP addresses and ports.

Enable	Name	Dest IP Start	Dest IP End	Protocol	Dest Port Start	Dest Port End
		0.0.0.0	255.255.255.255	Any 🔻	1	65535
		0.0.0.0	255.255.255.255	Any 💌	1	65535
		0.0.0.0	255.255.255.255	Any 🔻	1	65535
		0.0.0.0	255.255.255.255	Any 💌	1	65535
		0.0.0.0	255.255.255.255	Any 💌	1	65535
		0.0.0.0	255.255.255.255	Any 💌	1	65535
		0.0.0.0	255.255.255.255	Any 💌	1	65535
		0.0.0.0	255.255.255.255	Any 💌	1	65535

After the wizard was completed, rules will be displayed in this section. Tick the **Enable** option to enable the specified rule.

Click the \mathbf{I} icon to modify the specific entry.

Click the ${\ensuremath{\mathfrak{O}}}$ icon to delete the specific entry.

Click the **Save Settings** button to accept the changes made.

Click the **Don't Save Settings** button to discard the changes made.

POLICY TABLE							
Enable	Policy	Machine	Filtering	Logged	Schedule		
	BlockHTTP	192.168.1.10	Block Some Access	Yes	Always	F	T
Save Settings Don't Save Settings							

Website Filter

D-Link^{*}

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

On this page we can configure website filtering rules used by this router.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
VIRTUAL SERVER	WEBSITE FILTER	Helpful Hints			
PORT FORWARDING	The Website Filter option	n allows you to set up a lis	st of Web sites you would li	ke to allow or deny	Create a list of
PORT TRIGGERING	through your network. T the Access Control section	o use this feature, you mu	ust also select the "Apply W	/eb Filter" checkbox in	Websites that you would like the devices on your
QOS ENGINE	Save Settings Don't	Save Settings			network to be allowed or denied access to.
NETWORK FILTER					 Keywords can be
ACCESS CONTROL	40 WEBSITE FILTE	RING RULES			entered in this list in order to block any URL
WEBSITE FILTER	Configure Website Filter	containing the keyword entered.			
INBOUND FILTER	DENY computers access to	ONLY these sites			• Use with Advanced -
FIREWALL SETTINGS		oner diese sites			 Access Control. More
ROUTING	Clear the list below				
ADVANCED WIRELESS		Website UF	RL/Domain		
WI-FI PROTECTED SETUP					
ADVANCED NETWORK					
GUEST Wi-Fi					
IPV6 FIREWALL					
IPV6 ROUTING					

In this section, the following parameters can be configured:

- Configure Website Filter below: Select the website filtering method here. Select DENY computers access to ONLY these sites, to deny access to the websites and domains specified. Select the ALLOW computers access to ONLY these sites, to only allow access to the websites and domains specified.
- **Website URL/Domain:** Enter the website Uniform Resource Locator (URL) or domain name that will be blocked or allowed in the spaces provided.

Click the **Clear the list below...** button to remove all the Website URL/Domain entries.

Inbound Filter

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

On this page we can configure inbound filtering rules used by this router.

	®					
	UK .					
DSL-2890AL	SETUP	ADVANCED	MAINT	ENANCE	STATUS	HELP
VIRTUAL SERVER	INBOUND FILTER					Helpful Hints
PORT FORWARDING	The Inbound Filter opti	on is an advanced m	ethod of controlling	g data received	d from the Internet.	Give each rule a
PORT TRIGGERING	With this feature you ca address range	an configure inbound	l data filtering rules	that control o	lata based on an IP	Name that is meaningful to you.
QOS ENGINE	Inbound Filters can be	used for limiting acc	ess to a server on y	our network t	o a system or group of	• Each rule can either
NETWORK FILTER	systems. Filter rules car features	n be used with Virtua	al Server, Port Forw	/arding, or Rer	note Administration	from the WAN.
ACCESS CONTROL	Teatares.					Up to eight ranges of WAN IP addresses can
WEBSITE FILTER	ADD INBOUND FILT	ER RULE				be controlled by each
INBOUND FILTER		Name :				each IP range can be
FIREWALL SETTINGS		Action : Allow	•			used to disable ranges already defined.
ROUTING	Remot	e IP Range : Enable	Remote IP Start	Remote IP E	End	The starting and ending IP addresses are
ADVANCED WIRELESS			0.0.0.0	255.255.255	.255	WAN-side address.
WI-FI PROTECTED			0.0.0.0	255.255.255	.255	 Click the Add button to store a finished rule in
			0.0.0.0	255.255.255	.255	the Rules List below.
GUEST WI-FI			0.0.0.0	255.255.255	.255	 Click the Edit icon in the Rules List to change
IPV6 FIREWALL			0.0.0.0	255.255.255	.255	a rule.
IPV6 ROUTING			0.0.0.0	255.255.255	.255	in the Rules List to
			0.0.0.0	255.255.255	.255	rule.
			0.0.0.0	255.255.255	.255	• More
		4	Add Cancel		_	
	INBOUND FILTER RU	ULES LIST				
	Name Action F	Remote IP Range				

In this section, the following parameters can be configured:

Name: Enter the name of the Inbound filter rule here.

Action: Select the action that will be taken by this rule here. Options to choose from are Allow and Deny.

Enable: Tick this option to enable this entry.

Remote IP Start: Enter the starting remote IP address here.

Remote IP End: Enter the ending remote IP address here.

Click the **Add** button to add or modify the rule.

Click the **Cancel** button to discard the changes made.

ADD INBOUND FILTER RULE

Name :				
Action : Allo	ow 💌			
Remote IP Range : En	able Remot	e IP Start	Remote IP End	
[0.0.0.0		255.255.255.255]
	0.0.00		255.255.255.255]
	0.0.0.0		255.255.255.255]
	0.0.0.0		255.255.255.255]
	0.0.0.0		255.255.255.255]
	0.0.0.0]	255.255.255.255]
	0.0.0.0		255.255.255.255]
[0.0.0.0		255.255.255.255]
	Add	Cancel		

In this section, a list of configured inbound filter rules will be displayed.

Click the icon to modify the specific entry. Click the icon to delete the specific entry.

INBOUN	INBOUND FILTER RULES LIST				
Name	Action	Remote IP Range			
Block	Deny	1.1.1.1-197.80.203.150,197.80.203.152-223.255.255.255	E	Ŷ	

Firewall Settings

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

On this page we can configure the firewall settings of this router.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

In this section, the following parameters can be configured:

Enable SPI: Tick this option to enable the Stateful Packet Inspection (SPI) feature. SPI, also known as dynamic packet filtering, helps to prevent cyber-attacks. It validates that the traffic passing through the session conforms to the protocol.



FIREWALL SETTINGS

Enable SPI : 📝

In this section, the following parameters can be configured:

- **UDP Endpoint Filtering:** Select the UDP end-point filtering method here. The **Endpoint Independent** option will forward any UDP incoming traffic, sent to an open port, to the application that opened the port. The port will close if idled for 5 minutes. The **Address Restricted** will check whether UDP incoming traffic matches the IP address of the outgoing connection. The **Port And Address Restriction** option will check whether UDP incoming traffic matches the IP address and port of the outgoing connection.
- **TCP Endpoint Filtering:** Select the TCP end-point filtering method here. The **Endpoint Independent** option will forward any TCP incoming traffic, sent to an open port, to the application that opened the port. The port will close if idled for 5 minutes. The **Address Restricted** will check whether TCP incoming traffic matches the IP address of the outgoing connection. The **Port And Address Restriction** option will check whether TCP incoming traffic matches the IP address and port of the outgoing connection.

In this section, the following parameters can be configured:

Enable anti-spoof checking: Tick this option to enable the anti-spoof checking feature.

In this section, the following parameters can be configured:

Enable DMZ: Tick this option to enable the Demilitarized Zone (DMZ) feature. **DMZ IP Address:** Enter or select the local DMZ IP address here.

NAT ENDPOINT FILTERING

UDP Endpoint Filtering:	 Endpoint Independent Address Restricted Port And Address Restricted
TCP Endpoint Filtering:	 Endpoint Independent Address Restricted Port And Address Restricted

ANTI-SPOOF CHECKING

Enable anti-spoof checking : 📃

DMZ HOST			
The DMZ (Demilitarized Zone) option lets you set a single computer on your network outside of the router. If you have a computer that cannot run Internet applications successfully from behind the router, then you can place the computer into the DMZ for unrestricted Internet access.			
Note: Putting a computer in the DMZ may expose that computer to a variety of security risks. Use of this option is only recommended as a last resort.			
Enable DMZ : 📝			
DMZ IP Address :			
Computer Name			

In this section, the following parameters can be configured:

- **PPTP:** Tick this option to allow PPTP traffic. This feature allows multiple machines on the LAN to connect to their corporate network using the PPTP protocol.
- **IPSec (VPN):** Tick this option to allow IPSec (VPN) traffic. This feature allows multiple VPN clients to connect to their corporate network using IPSec. Some VPN clients support traversal of IPSec through NAT. This ALG may interfere with the operation of such VPN clients. If you are having trouble connecting with your corporate network, try turning this ALG off. Please check with the system administrator of your corporate network whether your VPN client supports NAT traversal.

AP	APPLICATION LEVEL GATEWAY (ALG) CONFIGURATION			
	РРТР : 🔽			
	IPSec (VPN) :			
	RTSP:			
	SIP: 🔽			
S	ave Settings Don't Save Settings			

- **RSTP:** Tick this option to allow RSTP traffic. This feature allows an application that uses Real Time Streaming Protocol to receive streaming media from the Internet. QuickTime and Real Player are some of the common applications using this protocol.
- SIP: Tick this option to allow SIP traffic. This feature allows devices and applications using VoIP (Voice over IP) to communicate across NAT. Some VoIP applications and devices have the ability to discover NAT devices and work around them. This ALG may interfere with the operation of such devices. If you are having trouble making VoIP calls, try turning this ALG off.

Click the Save Settings button to accept the changes made.

Click the Don't Save Settings button to discard the changes made.

Routing

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

On this page we can configure IPv4 routing rules used by this router.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

DSL-2890AL	SETUP	ADVANCED	MAINTENAI	NCE	STATUS	HELP
VIRTUAL SERVER	ROUTING					Helpful Hints
PORT FORWARDING	The Routing option all	lows you to define static rou	ites to specific des	tinations.		• Enable:
PORT TRIGGERING	Save Settings Do	n't Save Settings				Specifies whether the entry will be enabled or
QOS ENGINE						disabled.
NETWORK FILTER	32 ROUTE LIST					 Interface: Specifies the interface
ACCESS CONTROL	Remaining number of	rules that can be created: 3	32			WAN that the IP packet must use to
WEBSITE FILTER	-		Metric	Interface		transit out of the route when this route is use
INBOUND FILTER	Name	Destination IP	Henc	Interface		• Destination IP:
FIREWALL SETTINGS		bestingdom				The IP address of packets that will take t
ROUTING	Netmask	Gateway	1		•	route.
ADVANCED WIRELESS						 Netmask: One bit in the mask
WI-FI PROTECTED SETUP	Name	Destination IP				specifies which bits of the IP address must match.
ADVANCED NETWORK	Netmask	Gateway	1		•	• Gateway:
GUEST Wi-Fi						is the IP address of the
IPV6 FIREWALL	Name	Destination IP	_			router, if any, used to reach the specified
IPV6 ROUTING			1			destination.
	Netmask	Gateway	-			• Piore
	Name	Doctination ID				
	Name	Desunation IP	- I			
	Matemaals	Catoway	1		-	

In this section, the following parameters can be configured:
Checkbox: Tick this option to enable the selected route.
Name: Enter the name of the route here.
Netmask: Enter the Netmask address of the route here.
Destination IP: Enter the destination IP address of the route here.
Gateway: Enter the gateway IP address of the route here.
Metric: Enter the metric value for the route here.
Interface: Select the Interface that will use this route here.

32 -- ROUTE LIST Remaining number of rules that can be created: 32 Metric Interface Name Destination IP Netmask Gateway

Advanced Wireless

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

On this page we can configure more advanced wireless settings on this router.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

D-Lit					
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
VIRTUAL SERVER	ADVANCED WIRELES	SS SETTINGS			Helpful Hints
PORT FORWARDING	These options are for u	sers that wish to change th	he behavior of their 802.11	n wireless radio from	• It is recommended
PORT TRIGGERING	the standard settings. V Incorrect settings may	Ne do not recommend cha impact the performance of	nging these settings from t your wireless radio. The d	he factory defaults. efault settings should	that you leave these parameters with their
QOS ENGINE	provide the best wireles	ss radio performance in mo	ost environments.		default values. Adjusting them could limit the
NETWORK FILTER	Save Settings Don'	't Save Settings			performance of your wireless network.
ACCESS CONTROL		erttinee			 Enabling WMM can
WEBSITE FILTER	ADVANCED WIRELES	55 55111805			help control latency and jitter when transmitting
INBOUND FILTER	Wire	eless Band : 2.4GHz Ba	nd		multimedia content over a wireless connection.
FIREWALL SETTINGS	Transmit Power: High				• More
ROUTING	WLAN	Partition : 📄			
ADVANCED WIRELESS	W	1M Enable : 🕡			
WI-FI PROTECTED SETUP	HT 20/40 Co	existence : Enable	Disable		
ADVANCED NETWORK	ADVANCED WIRELES	SS SETTINGS			
GUEST Wi-Fi	Wire	less Band · 5GHz Band	1		
IPV6 FIREWALL	Trans				
IPV6 ROUTING	WLAN				
	W	1M Enable : 🕡			
	Save Settings Don'	t Save Settings			

	In	this section,	the following	parameters car	be configured:
--	----	---------------	---------------	----------------	----------------

- Wireless Band: Displays the wireless band that can be configured.
- **Transmit Power:** Select the wireless transmit power for the 2.4GHz band. Options to choose from are **High**, **Medium**, and **Low**.
- **WLAN Partition:** Tick this option to enable the WLAN partition feature. This enables 802.11d operation. 802.11d is a wireless specification developed to allow the implementation of wireless networks in countries that cannot use the 802.11 standard. This feature should only be enabled if you are in a country that requires it.

ADVANCED WIRELESS SETTINGS

Wireless Band : 2.4GHz Band	
Transmit Power: High	
WLAN Partition :	
WMM Enable : 🕡	
HT 20/40 Coexistence :	

- WMM Enable: Display that the Wi-Fi Multimedia (WMM) feature is enabled. WMM is QoS for your wireless network. This will improve the quality of video and voice applications for your wireless clients.
- HT 20/40 Coexistence: Select to enable or disable the HT 20/40 coexistence feature. Enable this option to reduce interference from other wireless networks in your area. If the channel width is operating at 40MHz and there is another wireless network's channel over-lapping and causing interference, the router will automatically change to 20MHz.

In this section, the following parameters can be configured:

Wireless Band: Displays the wireless band that can be configured.

- **Transmit Power:** Select the wireless transmit power for the 5GHz band. Options to choose from are **High**, **Medium**, and **Low**.
- **WLAN Partition:** Tick this option to enable the WLAN partition feature. This enables 802.11d operation. 802.11d is a wireless specification developed to allow the implementation of wireless networks in countries that cannot use the 802.11 standard. This feature should only be enabled if you are in a country that requires it.

ADVANCED WIRELESS SETTINGS	
Wireless Band : 5GHz Band	
Transmit Power: High	
WLAN Partition : 📝	
WMM Enable : 🛛	
Save Settings Don't Save Settings	

WMM Enable: Display that the Wi-Fi Multimedia (WMM) feature is enabled. WMM is QoS for your wireless network. This will improve the quality of video and voice applications for your wireless clients.

Click the Save Settings button to accept the changes made.

Click the Don't Save Settings button to discard the changes made.

Wi-Fi Protected Setup

W

To access the Wi-Fi Protected Setup page, click on the Advanced menu link, at the top, and then click on the Wi-Fi Protected Setup menu link, on the left.

On this page we can configure the Wi-Fi Protected Setup (WPS) settings on this router.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

n this section, the following parameters can be configured:					
Enable: Tick this option to enable the Wi-Fi Protected Setup (WPS) feature.					
WiFi Protected Setup: Displays the status of the WPS feature.					
Lock WPS-PIN Setup: Tick this option to lock the WPS-PIN setup.					

DSL-2890AL	SETUP	ADVANCED						
VIRTUAL SERVER			MAINTENANCE	STATUS	HELP			
	FI PRUIEUIED S	TUP						
PORT FORWARDING Wi-	Fi Protected Setup is	used to easily add device	s to a network using a PIN	or button press.	• Enable if other			
PORT TRIGGERING Dev	vices must support W	/i-Fi Protected Setup in ord	er to be configured by this	method.	wireless devices you wish to include in the local			
QOS ENGINE If t	he PIN changes, the on't Save Settings'' bi	new PIN will be used in fo utton will not reset the PIN	llowing Wi-Fi Protected Set	tup process. Clicking on	network support Wi-Fi Protected Setup.			
NETWORK FILTER HOV	wever, if the new PIN	I is not saved, it will get lo	st when the device reboots	s or loses power.	 Only "Admin" account 			
ACCESS CONTROL	ave Settings Don't	t Save Settings			can change security settings.			
WEBSITE FILTER					Lock WPS-PIN			
INBOUND FILTER	-FI PROTECTED SI		PIN Method prevents the					
FIREWALL SETTINGS		settings from being changed by any new						
ROUTING	WiFi Protect	external registrar using its PIN. Devices can still						
ADVANCED WIRELESS	Lock WPS-F	be added to the wireless network using Wi-Fi						
WI-FI PROTECTED			Protected Setup Push Button Configuration					
ADVANCED NETWORK PI	PIN SETTINGS							
GUEST Wi-Fi		Click Connect your Wireless Device to use						
IPV6 FIREWALL		PIN .			Wi-Fi Protected Setup to add wireless devices to			
IPV6 ROUTING		Reset PIN t	o Default Generate Nev	W PIN	the wireless network.			
AD	D WIRELESS STAT	ION Connect yo	ur Wireless Device		- Hore			

I-FI PROTECTED SETUP					
Enable :					
WiFi Protected Setup	Enable/Configured				
Lock WPS-PIN Setup :					

In this section, the WPS PIN will be displayed.

Click the **Reset PIN to Default** button to clear the PIN number used. Click the **Generate New PIN** button to generate a new WPS PIN.

Click the **Connect your Wireless Device** button to initiate the Wi-Fi Protected Setup (WPS) setup wizard.

PIN SETTINGS	
	PIN: 47112285
	Reset PIN to Default Generate New PIN

ADD WIRELESS STATION	
	Connect your Wireless Device

After clicking the **Connect your Wireless Device** button, the following page will be available.

D-Link	\leq
STEP 1: SELECT CONFIGURATION METHOD FOR YOUR WIRELESS NETWORK Please select one of 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	
Prev Next Cancel Connect	

Step 1: Select Configuration Method for Your Wireless Network

In this section, we can configure the following:

- **Auto:** Select this option to automatically allow the router and the wireless client to connect to each other by means of WPS.
- **Manual:** Select this option to display the configured wireless settings. This information can then be configured of the wireless clients manually to initiate a wireless connection.

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

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

Step 2: Connect Your Wireless Device

After selecting the **Auto** option, in Step 1, the following page will be available. In this section, we can configure the following:

- **PIN:** Select this option to use the Personal Identification Number (PIN) method to connect the two devices. Enter the PIN number here. Enter the same PIN number at the wireless client software.
- **PBC:** Select this option to use the Push Button Configuration (PBC) method to connect the two devices.

Click the **Connect** button to initiate the WPS connection.

Click the **Prev** button to return to the previous step.

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

After selecting the **PIN** option, in Step 2, the following page will be available.

The router will allow 120 seconds for the WPS connection to initiate.



STEP 2: CONNECT YOUR WIRELESS DEVICE
There are two ways to add wireless device to your wireless network: -PIN (Personal Identification Number) -PBC (Push Button Configuration)
Image:
please enter the PIN from your wireless device and click the below "Connect" Button within 120 seconds
🔘 РВС
please press the push button on your wireless device and click the below "Connect" Button within 120 seconds
Prev Next Cancel Connect

STEP 2: CONNECT YOUR WIRELESS DEVICE						
Please start WPS on the wireless device you are adding to your wireless network. Remain time in second: 118						
Adding wireless device: Started.						
Prev Next Cancel Connect						

After selecting the **PBC** option, in Step 2, the following page will be available. Press the WPS button on the wireless client to initiate the connection.

The router will allow 120 seconds for the WPS connection to initiate.

STEP 2: CONNECT YOUR WIRELESS DEVICE

Please press down the Push Button (physical or virtual) on the wireless device you are adding to your wireless network. Remain time in second: 118

Next

Prev

Adding wireless device: Started.

After successfully connecting the router and the wireless client, by means of WPS, the following page will be available.

Click the **Cancel** button to finish the setup and return to the main menu.

Click the **Wireless Status** button to view information about wireless clients connected to the router.

STEP 2: CONNECT YOUR WIRELESS DEVICE						
Adding wireless device: Succeeded. To add another device click on the Cancel button below or click on the Wireless Status button to check wireless status.						
Prev Next Cancel Wireless Status						

Cancel

Connect

After selecting the **Manual** option, in Step 1, the following page will be available.

This information can then be configured of the wireless clients manually to initiate a wireless connection.

Click the **Prev** button to return to the previous step.

Click the **Cancel** button to finish the setup and return to the main menu.

Click the **Wireless Status** button to view information about wireless clients connected to the router.

STEP 2:	CONNECT	YOUR WIRE	LESS DEVICE

2.4 Ghz Freque	ency
SSID: D-Link DS	L-2890AL
Security Mode: A	Auto (WPA or WPA2) - Personal
Cipher Type: TK	IP and AES
Pre-shared Key: 7d49df6566	
5 Ghz Frequen	cy
SSID: D-Link DS	L-2890AL_5GHz
Security Mode: A	Auto (WPA or WPA2) - Personal
Cipher Type: TK	IP and AES
Pre-shared Key: 7d49df6566	

Advanced Network

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

On this page we can configure more advanced network settings on this router.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

In this section, the following parameters can be configured:

Enable UPnP IGD: Tick this option to enable the UPnP Internet Gateway Device (IGD) feature.

- D-I ii	n1/*				
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
VIRTUAL SERVER	ADVANCED NETWOR	K SETTINGS			Helpful Hints
PORT FORWARDING	These options are for u	sers that wish to change th	ne LAN settings. We do not	recommend changing	UPnP helps other
PORT TRIGGERING	these settings from fact network.	ory default. Changing thes	e settings may affect the b	ehavior of your	UPnP LAN hosts interoperate with the
QOS ENGINE	Save Settings Don't	t Save Settings			router. Leave the UPnP option enabled as long
NETWORK FILTER					as the LAN has other UPnP applications.
ACCESS CONTROL	UPNP				 For added security, it
WEBSITE FILTER	Universal Plug and Plavi	(UPnP) sunnorts neer-to-n	eer Plug and Play functiona	lity for network	is recommended that you disable the WAN Ping
INBOUND FILTER	devices.	incy for necroric	Response option. Ping is often used by		
FIREWALL SETTINGS	Enable	malicious Internet users			
ROUTING		or PCs.			
ADVANCED WIRELESS	WAN PING • The WAN spec				
WI-FI PROTECTED SETUP	If you enable this featur Internet that are sent to	automatically. If you are having problems			
ADVANCED NETWORK	Enable WAN Ding	try selecting the speed			
GUEST Wi-Fi	LINDIE WAR FING	Response .			 If you are having
IPV6 FIREWALL					trouble receiving video
IPV6 ROUTING	IPV4 MULTICAST ST	REAMS			service from the
	Enable IPv4 Multicas	t Streams : 📃			Internet, make sure the Multicast Stream option is enabled.
	IPV6 MULTICAST ST	REAMS			• More
	Enable IPv6 Multicas	t Streams : 📄			
	Save Settings Don't	t Save Settings			

UPNP

Universal Plug and Play(UPnP) supports peer-to-peer Plug and Play functionality for network devices.

Enable UPnP IGD : 📝

In this section, the following parameters can be configured:

Enable WAN Ping Response: Tick this option to enable the ping feature to get a response from the WAN port.

WAN PING

If you enable this feature, the WAN port of your router will respond to ping requests from the Internet that are sent to the WAN IP Address.

Enable WAN Ping Response : 📄

In this section, the following parameters can be configured:

Enable IPv4 Multicast Streams: Tick this option to enable the IPv4 multicast streams feature. This feature will allow multicast traffic to pass through the router from the Internet (IPv4).

In this section, the following parameters can be configured:

Enable IPv6 Multicast Streams: Tick this option to enable the IPv6 multicast streams feature. This feature will allow multicast traffic to pass through the router from the Internet (IPv6).

IPV4 MULTICAST STREAMS

Enable IPv4 Multicast Streams : 📃

IPV6 MULTICAST STREAMS

Enable IPv6 Multicast Streams :

Save Settings Don't Save Settings

Guest Wi-Fi

D-Link

DSL-2890AL

To access the Guest Wi-Fi page, click on the Advanced menu link, at the top, and then click on the Guest Wi-Fi menu link, on the left.

On this page we can configure the guest Wi-Fi settings of this router.

Click the Save Settings button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
VIRTUAL SERVER	GUEST WI-FI				Helpful Hints
PORT FORWARDING	Use this section to conf	iqure the GUEST Wi-Fi set	tings of your router. The Gl	JEST Wi-Fi provide a	 Use this section to
PORT TRIGGERING	separate network zone	for guest to access Intern	et.		configure the guest zone settings of your router.
QOS ENGINE	Save Settings Don	t Save Settings			The guest zone provide a separate network zone
NETWORK FILTER	GUEST WI-FI				for guests to access Internet.
ACCESS CONTROL					• More
WEBSITE FILTER	Enable Routing Betw	een Zones :			
INBOUND FILTER					
FIREWALL SETTINGS	SESSION 2.4GHZ				
ROUTING	Enable GL	IEST Wi-Ei :	New Celesdale		
ADVANCED WIRELESS	Wire	less Band : 2 4GHz Ba	nd		
WI-FI PROTECTED	Wireless Netw	ork Name : Dual pour	and cur (Also called the	(CCID)	
	Sec	rity Mode : Nana	2890AL_GOD (AISO Called the	5510)	
ADVANCED NETWORK	J	Inty Hode . None	·		
IPV6 FIREWALL	SESSION 5GHZ				
IPV6 ROUTING	Enable GU	JEST Wi-Fi : 🔲 Always	New Schedule		
	Wire	eless Band : 5GHz Band	1		
	Wireless Netw	ork Name : D-Link DSL-	2890AL_5GF (Also called the	SSID)	
	Secu	urity Mode : None	v		
	Save Settings Don'	t Save Settings			

In this section, the following parameters can be configured:

Enable Routing Between Zones: Tick this option to enable routing between wireless zones.

GUEST WI-FI

Enable Routing Between Zones :

In this section, the following parameters can be configured:

- **Enable GUEST Wi-Fi:** Tick this option the enable the guest Wi-Fi features on the 2.4GHz wireless band. Select a time schedule from the drop-down menu to apply to this feature.
- Wireless Band: Displays the wireless band being configured.
- Wireless Network Name: Enter the guest wireless network name here.
- Security Mode: Select the wireless security mode that will be used for this guest wireless service. Options to choose from are None, WEP, WPA-Personal, and WPA-Enterprise.

After selecting **WEP** as the wireless security mode, the following page will be available. The following parameters can be configured:

- Authentication: Select the WEP authentication option here. Options to choose from are Both and Shared Key.
- WEP Encryption: Select the WEP Key Length value used here. Options to choose from are 128 bit (26 hex digits) and 64 bit (10 hex digits).
- Default WEP Key: Select the default WEP key here.
- **WEP Key:** Enter a wireless security key here. This key must be configured on all the wireless clients for them to be able to connect to your wireless network.

SSION 2.4GHZ	
Enable GUEST Wi-Fi :	Always New Schedule
Wireless Band :	2.4GHz Band
Wireless Network Name :	D-Link DSL-2890AL_GUE (Also called the SSID)
Security Mode :	None

SESSION 2.4GHZ
Enable GUEST Wi-Fi : 🖉 Always 💌 New Schedule
Wireless Band : 2.4GHz Band
Wireless Network Name : D-Link DSL-2890AL_GUE (Also called the SSID)
Security Mode : WEP
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.
Authentication : Both
WEP Encryption: 64 bit (10 hex digits)
Default WEP Key : WEP Key 1
WEP Key :

SESSION 2.4GHZ

After selecting **WPA-Personal** as the wireless security mode, the following page will be available. The following parameters can be configured:

- WPA Mode: Here we can select which WPA mode to use. Options to choose from are Auto (WPA or WPA2), WPA2 Only, and WPA Only.
- **Cipher Type:** Select the wireless cipher type here. Options to choose from are **TKIP and AES**, **TKIP**, and **AES**.
- Group Key Update Interval: Enter the group key update interval value here.
- **Pre-Shared Key:** Enter the WPA-Personal wireless Pre-Shared Key here. This key must be configured on all the wireless clients for them to be able to connect to your wireless network.

	Always V New Schedule
	Wireless Band : 2.4GHz Band
Wirel	ess Network Name : D-Link DSL-2890AL_GUE (Also called the SSID)
	Security Mode : WPA-Personal
WPA	
Use WPA or uses WPA for Also the stron mode. This m security. For and legacy de To achieve be cipher).	WPA2 mode to achieve a balance of strong security and best compatibility. This mod legacy clients while maintaining higher security with stations that are WPA2 capable. gest cipher that the client supports will be used. For best security, use WPA2 Only ode uses AES(CCMP) cipher and legacy stations are not allowed access with WPA maximum compatibility, use WPA Only . This mode uses TKIP cipher. Some gaming wices work only in this mode.
	WPA Mode : Auto(WPA or WPA2)
	Cipner Type: TKIP and AES

SESSION 2.4GHZ

RADIUS server Shared Secret :

After selecting **WPA-Personal** as the wireless security mode, the following page will be available. The following parameters can be configured:

- WPA Mode: Here we can select which WPA mode to use. Options to choose from are Auto (WPA or WPA2), WPA2 Only, and WPA Only.
- **Cipher Type:** Select the wireless cipher type here. Options to choose from are **TKIP and AES**, **TKIP**, and **AES**.
- Group Key Update Interval: Enter the group key update interval value here.
- **RADIUS server IP Address:** Enter the IP address of the external RADIUS server used here.
- RADIUS server Port: Enter the external RADIUS server port number used here.
- **RADIUS server Shared Secret:** Enter the RADIUS server Shared Secret here. This key must be configured on all the wireless clients for them to be able to connect to your wireless network.

Click the **Advanced** button to configure settings for an optional secondary RADIUS server.

	Wireless Band : 2.4GHz Band
w	/ireless Network Name: D-Link DSL-2890AL_GUE (Also called the SSID)
	Security Mode : WPA-Enterprise
WPA	
Use WPA uses WPA Also the s mode. Th security. and legad	A or WPA2 mode to achieve a balance of strong security and best compatibility. This mode A for legacy clients while maintaining higher security with stations that are WPA2 capable. strongest cipher that the client supports will be used. For best security, use WPA2 Only is mode uses AES(CCMP) cipher and legacy stations are not allowed access with WPA For maximum compatibility, use WPA Only. This mode uses TKIP cipher. Some gaming cy devices work only in this mode.
To achiev cipher).	ve better wireless performance use WPA2 Only security mode (or in other words AES
	WPA Mode : Auto(WPA or WPA2)
	Cipher Type : TKIP and AES 💌

Advanced >>

Enable GUEST Wi-Fi: V Always V New Schedule

After clicking the **Advanced** button, the following parameters are available for configuration:

- Second RADIUS server IP Address: Enter the IP address of the external RADIUS server used here.
- Second RADIUS server Port: Enter the external RADIUS server port number used here.
- Second RADIUS server Shared Secret: Enter the RADIUS server Shared Secret here. This key must be configured on all the wireless clients for them to be able to connect to your wireless network.

In this section, the following parameters can be configured:

Enable GUEST Wi-Fi: Tick this option the enable the guest Wi-Fi features on the 5GHz wireless band. Select a time schedule from the drop-down menu to apply to this feature.

Wireless Band: Displays the wireless band being configured.

Wireless Network Name: Enter the guest wireless network name here.

Security Mode: Select the wireless security mode that will be used for this guest wireless service. Options to choose from are None, WEP, WPA-Personal, and WPA-Enterprise.

	< > Advanced	
Optional backup RADIUS server		
Second RADIUS server IP : Address		
Second RADIUS server Port :	1812	
Second RADIUS server Shared : Secret		

SESSION 5GHZ
Enable GUEST Wi-Fi : 🔽 Always 💌 New Schedule
Wireless Band : 5GHz Band
Wireless Network Name : D-Link DSL-2890AL_5GF (Also called the SSID)
Security Mode : None

After selecting **WEP** as the wireless security mode, the following page will be available. The following parameters can be configured:

- Authentication: Select the WEP authentication option here. Options to choose from are Both and Shared Key.
- WEP Encryption: Select the WEP Key Length value used here. Options to choose from are 128 bit (26 hex digits) and 64 bit (10 hex digits).

Default WEP Key: Select the default WEP key here.

WEP Key: Enter a wireless security key here. This key must be configured on all the wireless clients for them to be able to connect to your wireless network.

Wireless Band : 5GHz Band Wireless Network Name : D-Link DSL-2890AL_5GF (Also called the SSID) Security Mode : WEP		Enable GUEST Wi-Fi : 📝 Always 💌 New Schedule
Wireless Network Name : D-Link DSL-2890AL_5GH (Also called the SSID) Security Mode : WEP		Wireless Band : 5GHz Band
Security Mode : WEP		Wireless Network Name: D-Link DSL-2890AL_5GF (Also called the SSID)
		Security Mode : WEP
	WEP	s the wireless encryption standard. To use it you must enter the same key(s) into the ro
and the wireless stations. For 64-bit keys you must enter 10 nex digits into each key box. For bit keys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 or a letter from A to F. For the most secure use of WEP set the authentication type to "Share when WEP is enabled.	WEP and t bit ke or a l when	s the wireless encryption standard. To use it you must enter the same key(s) into the rome wireless stations. For 64-bit keys you must enter 10 hex digits into each key box. For ys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 etter from A to F. For the most secure use of WEP set the authentication type to "Shared WEP is enabled.
and the wireless stations. For 64-bit keys you must enter 10 nex digits into each key box. For bit keys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 or a letter from A to F. For the most secure use of WEP set the authentication type to "Share when WEP is enabled." You may also enter any text string into a WEP key box, in which case it will be converted into hexadecimal key using the ASCII values of the characters. A maximum of 5 text characters car entered for 64-bit keys, and a maximum of 13 characters for 128-bit keys.	WEP and t bit ke or a l when You r hexac enter	s the wireless encryption standard. To use it you must enter the same key(s) into the rou ne wireless stations. For 64-bit keys you must enter 10 hex digits into each key box. For 1 ys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 t etter from A to F. For the most secure use of WEP set the authentication type to "Shared WEP is enabled. They also enter any text string into a WEP key box, in which case it will be converted into a ecimal key using the ASCII values of the characters. A maximum of 5 text characters can ed for 64-bit keys, and a maximum of 13 characters for 128-bit keys.
and the wireless statuons. For 64-bit keys you must enter 10 nex digits into each key box. For bit keys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 or a letter from A to F. For the most secure use of WEP set the authentication type to "Share when WEP is enabled. You may also enter any text string into a WEP key box, in which case it will be converted into hexadecimal key using the ASCII values of the characters. A maximum of 5 text characters carentered for 64-bit keys, and a maximum of 13 characters for 128-bit keys. Authentication : Both	WEP and t bit ke or a l when You r hexac enter	s the wireless encryption standard. To use it you must enter the same key(s) into the rou ne wireless stations. For 64-bit keys you must enter 10 hex digits into each key box. For 1 ys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 t etter from A to F. For the most secure use of WEP set the authentication type to "Shared I WEP is enabled. hay also enter any text string into a WEP key box, in which case it will be converted into a lecimal key using the ASCII values of the characters. A maximum of 5 text characters can ed for 64-bit keys, and a maximum of 13 characters for 128-bit keys. Authentication : Both
and the wireless stations. For 64-bit keys you must enter 10 nex digits into each key box. For bit keys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 or a letter from A to F. For the most secure use of WEP set the authentication type to "Share when WEP is enabled. You may also enter any text string into a WEP key box, in which case it will be converted into hexadecimal key using the ASCII values of the characters. A maximum of 5 text characters ca entered for 64-bit keys, and a maximum of 13 characters for 128-bit keys. Authentication : Both WEP Encryption : 64Bit	WEP and t bit ke or a l when You r hexao enter	s the wireless encryption standard. To use it you must enter the same key(s) into the rou ne wireless stations. For 64-bit keys you must enter 10 hex digits into each key box. For 1 ys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 t etter from A to F. For the most secure use of WEP set the authentication type to "Shared I WEP is enabled. nay also enter any text string into a WEP key box, in which case it will be converted into a lecimal key using the ASCII values of the characters. A maximum of 5 text characters can ed for 64-bit keys, and a maximum of 13 characters for 128-bit keys. Authentication : Both WEP Encryption : 64Bit
and the wireless statuons. For 64-bit Keys you must enter 10 nex digits into each key box. For bit keys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 or a letter from A to F. For the most secure use of WEP set the authentication type to "Share- when WEP is enabled. You may also enter any text string into a WEP key box, in which case it will be converted into hexadecimal key using the ASCII values of the characters. A maximum of 5 text characters ca entered for 64-bit keys, and a maximum of 13 characters for 128-bit keys. Authentication : Both WEP Encryption : 64Bit Default WEP Key : WEP Key 1	WEP and t bit ke or a l when You r hexao enter	s the wireless encryption standard. To use it you must enter the same key(s) into the rou ne wireless stations. For 64-bit keys you must enter 10 hex digits into each key box. For 1 ys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 t etter from A to F. For the most secure use of WEP set the authentication type to "Shared I WEP is enabled. nay also enter any text string into a WEP key box, in which case it will be converted into a lecimal key using the ASCII values of the characters. A maximum of 5 text characters can ed for 64-bit keys, and a maximum of 13 characters for 128-bit keys. Authentication : Both WEP Encryption : 64Bit Default WEP Key : WEP Key 1

SESSION 5GHZ

After selecting **WPA-Personal** as the wireless security mode, the following page will be available. The following parameters can be configured:

- WPA Mode: Here we can select which WPA mode to use. Options to choose from are Auto (WPA or WPA2), WPA2 Only, and WPA Only.
- Cipher Type: Select the wireless cipher type here. Options to choose from are TKIP and AES, TKIP, and AES.
- Group Key Update Interval: Enter the group key update interval value here.
- **Pre-Shared Key:** Enter the WPA-Personal wireless Pre-Shared Key here. This key must be configured on all the wireless clients for them to be able to connect to your wireless network.

n	Enable GUEST Wi-Fi : 📝 Always 💌 New Schedule	
	Wireless Band : 5GHz Band	
	Wireless Network Name : D-Link DSL-2890AL_5GF (Also called the SSID)	
	Security Mode : WPA-Personal	
ey o	WPA	
	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 Only mode. This mode uses AES(CCMP) cipher and legacy stations are not allowed access with WPA security. For maximum compatibility, use WPA Only . This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode.	
	To achieve better wireless performance use WPA2 Only security mode (or in other words AES cipher).	
	WPA Mode : Auto(WPA or WPA2)	
	Cipher Type : TKIP and AES	
	Group Key Update Interval: 3600 (seconds)	
	PRE-SHARED KEY	
	Enter an 8- to 63-character alphanumeric pass-phrase. For good security it should be of ample length and should not be a commonly known phrase.	
	Pre-Shared Key :	

After selecting **WPA-Personal** as the wireless security mode, the following page will be available. The following parameters can be configured:

- WPA Mode: Here we can select which WPA mode to use. Options to choose from are Auto (WPA or WPA2), WPA2 Only, and WPA Only.
- **Cipher Type:** Select the wireless cipher type here. Options to choose from are **TKIP and AES**, **TKIP**, and **AES**.
- Group Key Update Interval: Enter the group key update interval value here.
- **RADIUS server IP Address:** Enter the IP address of the external RADIUS server used here.
- RADIUS server Port: Enter the external RADIUS server port number used here.
- **RADIUS server Shared Secret:** Enter the RADIUS server Shared Secret here. This key must be configured on all the wireless clients for them to be able to connect to your wireless network.
- Click the **Advanced** button to configure settings for an optional secondary RADIUS server.

Wireles	Wireless Band : 5GHz Band		
Wireles	Wireless Natwork Name : Durin Denau For (Alex called the CCTD)		
	ess Network Name: D-Link DSL-2890AL_5GF (Also called the SSID)		
	Security Mode : WPA-Enterprise		
WPA			
Use WPA or W uses WPA for le	WPA2 mode to achieve a balance of strong security and best compatibility. This mo		
Use WPA or W uses WPA for le Also the strong mode. This mod security. For ma and legacy devi To achieve bett cipher).	WPA2 mode to achieve a balance of strong security and best compatibility. This mo legacy clients while maintaining higher security with stations that are WPA2 capable gest cipher that the client supports will be used. For best security, use WPA2 Only ode uses AES(CCMP) cipher and legacy stations are not allowed access with WPA naximum compatibility, use WPA Only. This mode uses TKIP cipher. Some gaming wices work only in this mode.		

EAP (802.1X)

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

RADIUS server IP Address :	
RADIUS server Port :	1812
RADIUS server Shared Secret :	
	Advanced >>

After clicking the **Advanced** button, the following parameters are available for configuration:

- Second RADIUS server IP Address: Enter the IP address of the external RADIUS server used here.
- Second RADIUS server Port: Enter the external RADIUS server port number used here.
- Second RADIUS server Shared Secret: Enter the RADIUS server Shared Secret here. This key must be configured on all the wireless clients for them to be able to connect to your wireless network.

	<< Advanced
Optional backup RADIUS server	
Second RADIUS server IP : Address	
Second RADIUS server Port :	1812
Second RADIUS server Shared : Secret	

IPv6 Firewall

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

On this page we can configure the IPv6 firewall rules used by this router.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.



In this section, the following parameters can be configured:

Enable IPv6 Simple Security: Tick this option to enable the IPv6 simple security feature.

IPV6 SIMPLE SECURITY

Enable IPv6 Simple Security :

In this section, the following parameters can be configured:

Configure IPv6 Filtering below: select the IPv6 filtering method here. Select the Turn IPv6 Filtering OFF option, to disable this feature. Select the Turn IPv6 Filtering ON and ALLOW rules listed option, to enable the IPv6 filtering feature and allow the rules listed. Select the Turn IPv6 Filtering ON and DENY rules listed option, to enable the IPv6 filtering feature and deny the rules listed.

Checkbox: Tick this option to enable the selected rule.

- Name: Enter the name of the IPv6 filtering rule here.
- Schedule: Select the time schedule that will be applied to this rule here.
- **Source:** Select the source interface associated with this rule.
- **Dest:** Select the destination interface associated with this rule.
- **IP Address Range:** Enter the starting and ending IP addresses, used for this rule, here.
- **Protocol:** Select the protocol associated with this rule here. Options to choose from are **TCP**, **UDP**, and **ICMP**.

Port Range: Enter the starting and ending port numbers, used for this rule here.

20 -- IPV6 FIREWALL RULES

Remaining number of rules that can be created: 20

Confi Turn	igure IPv6 Filter IPv6 Filtering OI	ring below: FF	•	
	Name		Schedule Always	
	Source	Interface	IP Address Range -	Protocol ALL
	Dest	Interface	IP Address Range -	Port Range

IPv6 Routing

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

On this page we can configure the IPv6 routing rules used by the router.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

D-Link							
DSL-2890AL		SETUP	ADVAN	ICED	MAINTENANCE	STATUS	HELP
VIRTUAL SERVER	ROUTING						Helpful Hints
PORT FORWARDING PORT TRIGGERING QOS ENGINE	This your Sav	Routing page all network. ve Settings Do	 Each route has a check box next to it, check this box if you want the route to be enabled. 				
NETWORK FILTER	10 ROUTE LIST						 The name field allows you to specify a name for identification of this route, e.g. 'Network 2'
INBOUND FILTER FIREWALL SETTINGS		Name Metric	Interface	64 Gatewa	,	/	 The destination IPv6 address is the address of the host or network you wish to reach.
ROUTING ADVANCED WIRELESS		Name Destination IPv6 / Prefix Length				/	 The prefix length field identifies the portion of the destination IP in use. The gateway IP
ADVANCED NETWORK		Metric	Interface	64 Gatewa	4		address is the IP address of the router, if any, used to reach the specified destination.
IPV6 FIREWALL IPV6 ROUTING		Name		Destina 64	tion IPv6 / Prefix Length	1	• More
		Metric	Interface NULL	Gatewa	4		

In this section, the following parameters can be configured:

Checkbox: Tick this option to enable the specified route.

Name: Enter the name of the route here.

Metric: Enter the metric value for this route here.

Interface: Select the interface, associated with this route, here.

Destination IPv6 / Prefix Length: Enter the destination IPv6 address and prefix length value for the route here.

Gateway: Enter the gateway IPv6 address for the route here.

10 ROUTE LIST					
	Name		Destination IPv6 / Prefix Length /		
	Metric	Interface NULL	Gateway		

Maintenance Category

ADMI TIME SYSLC EMAI SYSTE FIRM DYNA DIAG SCHE LOGO

The **Maintenance** category is designed to assist the user with maintenance configurations for this product.

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

- Admin On this page we can configure the administrator settings of this router.
- Time On this page we can configure the time and date settings for this • router.
- Email Settings On this page we can configure the email settings for this . router.
- **System** On this page we can configure the system settings of this router. .
- Firmware On this page we can view and initiate a firmware update for this router.
- Dynamic DNS On this page we can configure the Dynamic DNS settings for ٠ this router.
- Diagnostics On this page we can initiate and view connection diagnostics . for this router.
- Schedules On this page we can configure time and date schedules used by . this router.

Delink									
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP				
ADMIN	ADMINISTRATOR SET		Helpful Hints						
TIME	The 'admin' account ca	For security reasons, it is recommended that you change the password for the Admin account. Be sure to write down the new password to avoid having to reset the router in case they are							
SYSLOG	By default there is no p								
EMAIL SETTINGS	password to keep your								
SYSTEM	Save Settings								
FIRMWARE	ADMIN PASSWORD				forgotten. • When enabling Remote Management, you can specify the IP address of the computer on the Internet that you want to have access to				
DYNAMIC DNS	Please onter the sam	a password into both	over for confirmation						
DIAGNOSTICS	Flease encer the same								
SCHEDULES	Verify								
LOGOUT	veniyi	blank to allow access to							
	SYSTEM NAME		Internet.						
	Gatev		Select a filter that controls access as paeded for this admin						
	ADMINISTRATION	needed for this admin port. If you do not see the filter you need in the list of filters, go to the Advanced -> Inbound Filter screen and create a new filter. • More							
	ADMINISTRATION								
	Enable Graphical :								
	Enable HTTI								
	Enable Remote Man								
	Remote Admin Inho	und Filter : Allow All Ind	e HTTPS: 🛄						
		Details : Allow All		_					
	SSH MANAGEMENT								
	SSH Local Man	agement : 📃							
	SSH Remote Man	agement : 📃							
	SSH Ren	note Port: 2222							
	SSH Remote Inbo	und Filter : Allow All 😪							
		Details : Allow All							
Admin

To access the Admin page, click on the Maintenance menu link, at the top, and then click on the Admin menu link, on the left.

On this page we can configure the administrator settings of this router.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

 h1	nk				
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
ADMIN	ADMINISTRATOR SE	TTINGS			Helpful Hints
TIME	The 'admin' account o	an access the manageme	ent interface. The admin ha	s read/write access	 For security reasons, it is recommended that
SYSLOG	and can change passw By default there is no	vord. password configured. It i	is highly recommended that	vou create a	you change the password for the Admin account.
EMAIL SETTINGS	password to keep you	r router secure.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Be sure to write down the new password to avoid
SYSTEM	Save Settings	Don't Save Settings			having to reset the router in case they are
FIRMWARE	ADMIN PASSWORD				forgotten.
DYNAMIC DNS	Diasce enter the car	na passward into both	hoves for confirmation		 When enabling Remote Management,
DIAGNOSTICS	Please enter the sar	ne password into boti	Toxes, for confirmation		address of the computer
SCHEDULES	Vorifie	Password :			want to have access to
LOGOUT	veniy				blank to allow access to
	SYSTEM NAME				Internet.
	Gate	way Name : DSL-2890A	-		 Select a filter that controls access as needed for this admin
	ADMINISTRATION				port. If you do not see the filter you need in the list of filters, go to the
	Enable Auth Enable HT	e Graphical : 📃 entication IPS Server : 🔽			Advanced -> Inbound Filter screen and create a new filter.
	Enable Remote Ma	nagement : 📃			• More
	Remote A	dmin Port: 8080	Jse HTTPS:		
	Remote Admin Inbo	ound Filter : Allow All	r		
		Details : Allow All			
	SSH MANAGEMENT				
	SSH Local Ma	nagement : 🕅			
	SSH Remote Ma	nagement : 🔲			
	SSH Re	mote Port : 2222			
	SSH Remote Inbo	ound Filter : Allow All	r		
		Details : Allow All			

Password: Enter the new Web UI login password here.

Verify Password: Enter the new Web UI login password here again to verify.

ADMIN PASSWORD

Please enter the same password into both boxes, for confirmation.

Password :

Verify Password :

Gateway Name: Enter the name for this router here.

SYSTEM NAME

Gateway Name : DSL2890AL

In this section, the following parameters can be configured:

- **Enable Graphical Authentication:** Tick this option to enable the graphical authentication feature here. This feature enables a challenge-response test to require users to type letters or numbers from a distorted image displayed on the screen to prevent online hackers and unauthorized users from gaining access to your router's network settings.
- **Enable HTTPS Server:** Tick this option to enable the HTTPS server feature. This feature enables HTTPS to connect to the router securely.
- **Enable Remote Management:** Tick this option to enable the remote management feature. Remote management allows the router to be configured from the Internet by a web browser. A username/password is still required to access the Web UI interface.
- **Remote Admin Port:** Enter the remote administration port number here. Tick this **Use HTTPS** option to use secure HTTP.

Remote Admin Inbound Filter: Select the remote administration inbound filter method here. Options to choose from are Allow All, Deny All, an	nd Block .
--	-------------------

Details: Displays the descriptive details of the remote administration inbound filter rule created and applied.

In this section, the following parameters can be configured:

- **SSH Local Management:** Select this option to enable SSH local management to this router.
- **SSH Remote Management:** Select this option to enable SSH remote management to this router.
- **SSH Remote Port:** After enabling SSH remote management, enter the SSH remote port number used here.
- **SSH Remote Inbound Filter:** Select the SSH remote inbound filter method here. Options to choose from are **Allow All** and **Deny All**.

Details: Displays the descriptive details of the SSH remote inbound filter rule created and applied.

ADMINISTRATION	
Enable Graphical : Authentication Enable HTTPS Server :	
Enable Remote Management :	
Remote Admin Port :	8080 Use HTTPS:
Remote Admin Inbound Filter :	Allow All
Details :	Allow All

SSH MANAGEMENT	
SSH Local Management :	
SSH Remote Management :	
SSH Remote Port :	2222
SSH Remote Inbound Filter :	Allow All
Details :	Allow All

- In this section, the following parameters can be configured:
- **Telnet Local Management:** Select this option to enable Telnet local management to this router.
- **Telnet Remote Management:** Select this option to enable Telnet remote management to this router.
- **Telnet Remote Port:** After enabling Telnet remote management, enter the Telnet remote port number used here.
- Telnet Remote Inbound Filter: Select the Telnet remote inbound filter method here. Options to choose from are Allow All and Deny All.

Details: Displays the descriptive details of the Telnet remote inbound filter rule created and applied.

In this section, the following parameters can be configured:

- **TFTP Local Management:** Select this option to enable TFTP local management to this router.
- **TFTP Remote Management:** Select this option to enable TFTP remote management to this router.
- **TFTP Remote Port:** After enabling TFTP remote management, enter the TFTP remote port number used here.
- **TFTP Remote Inbound Filter:** Select the TFTP remote inbound filter method here. Options to choose from are **Allow All** and **Deny All**.
- **Details:** Displays the descriptive details of the TFTP remote inbound filter rule created and applied.

Click the **Save Settings** button to accept the changes made.

Click the Don't Save Settings button to discard the changes made.

TELNET MANAGEMENT	
Telnet Local Management :	
Telnet Remote Management :	
Telnet Remote Port :	2323
Telnet Remote <u>Inbound Filter</u> :	Allow All
Details :	Allow All

TFTP MANAGEMENT
TFTP Local Management :
TFTP Remote Management :
TFTP Remote Port : 6969
TFTP Remote Inbound Filter : Allow All
Details : Allow All
Save Settings Don't Save Settings

Time

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

On this page we can configure the time and date settings for this router.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

	1k –				
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
ADMIN	TIME AND DATE				Helpful Hints
TIME	The Time and Date Con	figuration option allows you	u to configure, update, and	d maintain the correct	• Either enter the time
SYSLOG	time on the internal sys the NTP (Network Time	tem clock. From this section Protocol) Server, Davlight	n you can set the time zon Saving can also be config.	e you are in and set red to adjust the time	manually by clicking the Sync. Your Computers
EMAIL SETTINGS	when needed.				Time Settings button, or use the Automatic
SYSTEM	Save Settings Don'	t Save Settings			Time Configuration option to have your
FIRMWARE		FTCUDATION			router synchronize with a
DYNAMIC DNS	TIME AND DATE CON	FIGURATION			Internet
DIAGNOSTICS		Time : 2000/01/01 (00:29:12		• More
SCHEDULES	1	ime Zone : (GMT+10:00)	Canberra, Melbourne, Sydney	•	
	Enable Daylig	ht Saving : 📃			
	Daylight Sav	ing Offset : +01:00 💌			
	Daylight Sav	ing Dates :	Month Week Day of W	eek Time	
		DST Start	lan 🔻 1st 💌 Sun 🔻	12:00 AM 🔻	
		DST End	lan 💌 1st 💌 Sun 🔻	12:00 AM 🔻	
	AUTOMATIC TIME AN	ID DATE CONFIGURATIO	N		
	Automatically synch	raniza with D Link's Intern	at time conver		
	Automatically synch	ironize with D-LINK's Intern	et unie server		
	NTP Se	rver Used : ntp1.dlink.com	m 💌 Update Now		
	Synchronizing				

Time: Displays the current time configured on this router.

Time Zone: Select the time zone here.

Enable Daylight Saving: Tick this option to enable daylight saving.

Daylight Saving Offset: Select the daylight saving offset here.

Daylight Saving Dates: Select the daylight saving starting and ending month, week, day of the week and time here.

TIME AND DATE CONFIGURATION

Time :	2000/01/01	00:29:31	L			
Time Zone :	(GMT+10:00) Canberra,	Melbourn	ie, Sydney		▼
Enable Daylight Saving :						
Daylight Saving Offset :	+01:00 💌					
Daylight Saving Dates :		Month	Week	Day of Week	Time	
	DST Start	Jan 💌	1st 💌	Sun 💌	12:00 AM 💌	
	DST End	Jan 🔻	1st 💌	Sun 💌	12:00 AM 🔻	

In this section, the following parameters can be configured:

Checkbox: Tick this option to enable the automatic time synchronization feature. This router will synchronize the time and date with one of D-Link's time servers.NTP Server Used: Select the D-Link time server here.

Click the **Update Now** button to manually initiate a time and date update to this router.

In this section we can manually configure the time and date for this router. Manually select the **Year**, **Month**, **Day**, **Hour**, **Minute**, and **Second** options.

Click the **Sync. your computer's time settings** button to automatically select and use the management computer's time and date settings on this router.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

AUTOMATIC TIME AND DATE CONFIGURATION
Automatically synchronize with D-Link's Internet time server
NTP Server Used : ntp1.dlink.com Vpdate Now

SET TH	IE TIME AND DA	TE MANUALI	LY		
Year Hour	2013 • 16 •	Month Minute	Mar 💌 37 💌	Day Second	8 💌 37
	Sync. yo	ur computer's ti	me settings		
Save 9	Settings Don't !	Save Settings			

Email Settings

To access the **Email Settings** page, click on the **Maintenance** menu link, at the top, and then click on the **Email Settings** menu link, on the left.

On this page we can configure the email settings for this router.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

6L-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
MIN	EMAIL SETTINGS				Helpful Hints
МЕ	The Email feature can b	e used to send the syste	m log files and router alert m	essages to your email	You may want to
slog	address.				similar to those of
IAIL SETTINGS	Save Settings Don'	t Save Settings			email client program
/STEM	- EMAIL NOTIFICATIO	N			e nore
RMWARE					
YNAMIC DNS	Enable Email No	otification :			
IAGNOSTICS					
CHEDULES	- EPIALE SETTINGS				
	From Ema	il Address :			
	To Ema	il Address :			
	Ema	il Subject :			
	SMTP Serve	er Address :			
	SMTP S	erver Port : 25			
	Enable Autho	entication :			
	Acco	unt Name :			
		Password :			
	Verify	Password ·	Cand Mail New		

In this section, the following parameters can be configured:

Enable Email Notification: Tick this option to enable the email notification feature.

EMAIL NOTIFICATION

Enable Email Notification : 📄

- From Email Address: Enter the sender's email address here.
 To Email Address: Enter the recipient's email address here.
 Email Subject: Enter the email's subject information here.
 SMTP Server Address: Enter the SMTP server's IP address here.
 SMTP Server Port: Displays the SMTP server's port number that will be used.
- **Enable Authentication:** Tick this option to enable SMTP authentication.
- Account Name: Enter the email account username here.
- Password: Enter the email account password here.
- Verify Password: Enter the email account password here again.

Click the **Send Mail Now** button to send out a test email to test the email settings configured.

In this section, the following parameters can be configured:

- **On Log Full:** Tick this option to send out an email when the log space is close to depletion.
- **On Schedule:** Tick this option to send out an email based on the schedule selected.
- **Schedule:** Select the schedule that will be used to send periodic informational emails.
- **Details:** Displays the schedule detail information.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

EMAIL SETTINGS

From Email Address :	
To Email Address :	
Email Subject :	
SMTP Server Address :	
SMTP Server Port :	25
Enable Authentication :	
Account Name :	
Password :	
Verify Password :	Send Mail Now

EMAIL LOG WHEN FULL OR ON SCHEDULE
On Log Full : 🥅
On Schedule :
Schedule : Never
Detail :
Save Settings Don't Save Settings

System

To access the System page, click on the Maintenance menu link, at the top, and then click on the System menu link, on the left.

On this page we can configure the system settings of this router.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

D-I fi					
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
ADMIN	SAVE AND RESTORE	SETTINGS			Helpful Hints
TIME	Once the router is conf	igured you can save the co	nfiguration settings to a co	nfiguration file on your	Once your router is
SYSLOG	hard drive. You also ha settings.	ve the option to load config	uration settings, or restore	e the factory default	want it, you can save
EMAIL SETTINGS					configuration file that
SYSTEM	SAVE AND RESTORE	SETTINGS			can later be loaded in the event that the
FIRMWARE DYNAMIC DNS	Save Settings	To Local Hard Drive :	Save Configuration		router's default settings are restored. To do this, click the Save button
DIAGNOSTICS	Load Settings Fro	m Local Hard Drive :		Browse	next to where it says Save Settings to Local
SCHEDULES			Restore Configuration From F	ile	Hard Drive. • More
	Restore To Facto	ory Default Settings:	Restore Factory Defaults		
		Reboot The Device :	Reboot the Device		

In this section, the following parameters can be configured:

- Save Settings To Local Hard Drive: Click the Save Configuration button to download the router's settings to the management computers.
- Load Settings From Local Hard Drive: Click the Browse button to navigate to the saved configuration file, on the management computer, and click the Restore Configuration From File button to restore the router's configuration to the settings configured on the configuration file.
- **Restore To Factory Default Settings:** Click the **Restore Factory Defaults** button to remove all the settings configured on this router and return the settings to the factory defaults.
- **Reboot The Device:** Click the **Reboot the Device** button to reboot the router. All unsaved configurations will be discarded.

SAVE AND RESTORE SETTINGS	
Save Settings To Local Hard Drive : Save Configuration	
Load Settings From Local Hard Drive :	Browse
Restore Configuration From File	
Restore To Factory Default Settings : Restore Factory Defaults	
Reboot The Device : Reboot the Device	

Firmware

To access the Firmware page, click on the Maintenance menu link, at the top, and then click on the Firmware menu link, on the left.

On this page we can view and initiate a firmware update for this router.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

D-Li	n k				\prec
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
ADMIN	FIRMWARE UPDATE				Helpful Hints
TIME SYSLOG EMAIL SETTINGS	There may be new fin <u>Click here to check for</u> To upgrade the firmw button. Once you hav upgrade.	mware for your router to i r an upgrade on our suppor are, locate the upgrade fil re found the file to be use	improve functionality and p o <u>rt site.</u> le on the local hard drive w d, click the Upload button	erformance. ith the Browse to start the firmware	Firmware Update are released periodically to improve the functionality of your router and also to add features. If you run into are refe
SYSTEM	FIRMWARE INFORM	ATTON			a problem with a specific feature of the router,
DYNAMIC DNS DIAGNOSTICS SCHEDULES LOGOUT	HRMWARE INFORMATION check our support site Current Firmware Version : AU_1.02.04 check our support site Current Firmware Time : 01/21/2014 14:54:00 graded version of firmware is available firmware is available firmware is available firmware Version Check Online Now for Latest : Check Now Firmware Version • More				 dicking on the Check Now and see if an updated version of firmware is available for your router. More
	FIRMWARE UPGRAD Note: Some firmwar defaults. Before per To upgrade the firm the name of the firm	e upgrades reset the cr forming an upgrade, br iware, your PC must ha mware upgrade file, and Upload : Upload	onfiguration options to e sure to save the currer ve a wired connection t d click on the Upload but	the factory nt configuration. o the router. Enter tton. Browse	

In this section, the firmware version, of this router, will be displayed.

Click the **Check Now** button to check online whether there is a new firmware version available for this product.

FIRMWARE INFORMATION	
Current Firmware Version	: AU_1.02.04
Current Firmware Time	: 01/21/2014 14:54:00
Check Online Now for Latest Firmware Version	Check Now

Upload: Click the **Browse** button to navigate to the new firmware file, located on the management computers, and click the **Upload** button to initiate the firmware upgrade procedure. All settings will be removed and this product will return to the factory default settings.

FIRMWARE UPGRADE

Note: Some firmware upgrades reset the configuration options to the factory defaults. Before performing an upgrade, be sure to save the current configuration. To upgrade the firmware, your PC must have a wired connection to the router. Enter the name of the firmware upgrade file, and click on the Upload button. Upload : Browse...

Dynamic DNS

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

On this page we can configure the Dynamic DNS settings for this router.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
ADMIN	DYNAMIC DNS				Helpful Hints
TIME SYSLOG EMAIL SETTINGS	The Dynamic DNS featu domain name that you assigned IP address. M addresses. Using a DDI your game server no m	ure allows you to host a se have purchased (www.wf ost broadband Internet Se VS service provider, your f astter what your ID addres	erver (Web, FTP, Game Sen nateveryournameis.com) wit ervice Providers assign dyna friends can enter your host i s ie	ver, etc) using a h your dynamically mic (changing) IP name to connect to	 To use this feature you must first have a Dynamic DNS account from one of the providers in the drop
SYSTEM FIRMWARE DYNAMIC DNS	Sign up for D-Link's Free	e DDNS service at www.f	DLinkDDNS.com.		down menu. • We could also use DDNS function for IPv with the same account as IPv4.
DIAGNOSTICS	DYNAMIC DNS SETT	INGS			• More
SCHEDULES	- Enable Dyn Serve H Userna Passwe	aamic DNS : amic DNS : and the set of the	Y		
	Verify Passw	ord or Key : Timeout : 567 Status : Disconnect	(hours) ed		
	DYNAMIC DNS FOR	IPV6 HOSTS Enable :			

Enable Dynamic DNS: Tick this option to enable the Dynamic DNS feature.

Server Address: Select the Dynamic DNS service provider from the drop-down menu.

Host Name: Enter the Dynamic DNS hostname here.

Username of Key: Enter the Dynamic DNS username or key here.

Password or Key: Enter the Dynamic DNS password or key here.

Verify Password or Key: Enter the Dynamic DNS password or key here again.

Timeout: Enter the time-out value used here.

Status: Displays the current Dynamic DNS status.

In this section, the following parameters can be configured:

Enable: Tick this option the enable the Dynamic DNS feature for IPv6 hosts. **IPv6 Address:** Enter or select the IPv6 address of the host here. **Host Name:** Enter the IPv6 host name here.

Click the **Save** button to accept and save the changes made.

Click the Clear button to clear the information entered in the parameter fields.

In this section, a list of IPv6 Dynamic DNS hosts will be displayed.

Click the ficon to modify the specific entry.

Click the 🖤 icon to delete the specific entry.

Click the **Save Settings** button to accept the changes made.

Click the Don't Save Settings button to discard the changes made.

		_	
DVNAM	IC DNS	SELL	I Mess
		SET 1	

Enable Dynamic DNS:	
Server Address :	(V)
Host Name :	
Username or Key :	
Password or Key :	
Verify Password or Key :	
Timeout :	567 (hours)
Status :	Disconnected

DYNAMIC DNS FOR IPV6 HOSTS					
Enable : 👿					
IPv6 Address :	< Computer Name				
Host Name :	(e.g.: ipv6.mydomain.net)				
Save					

IPV6 DYNAMIC DNS LIST				
Enable Host Name	IPv6 Address			
Save Settings Don't Save Settings		_		

Diagnostics

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

On this page we can initiate and view connection diagnostics for this router.

D-Li	nk				
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
ADMIN	DIAGNOSTICS				Helpful Hints
TIME SYSLOG	This Diagnostics suppor status to local networks	ts ICMP Ping Test and OAM 3.	M F4/F5 Ping Test. It also d	isplay the connection	 "Ping" checks whether a computer on the Internet is running and
EMAIL SETTINGS	THE CONNECTION T	D LOCAL NETWORK			responding. Enter either the IP address of the
SYSTEM	Lan1 Connection:		PASS		target computer or enter its fully qualified domain name.
DYNAMIC DNS	Lan2 Connection:		FAIL		• More
DIAGNOSTICS	Lan3 Connection:		FAIL		
SCHEDULES	Lan4 Connection:		FAIL		
		Ref	resh		
	THE CONNECTION T	D DSL SERVICE PROVID	ER		
	xDSL Synchronizatio	n:	FAIL		
	PING TEST				
	Host Name or I	P Address :	Ping		
	Host Name or IPv	6 Address :	Ping		
	Enter a host name or I	address above and click '	Ping'		

In this section, we can initiate and view diagnostic test information for the LAN connectivity of this router.

Click the **Refresh** button to refresh the information displayed in this section.

THE CONNECTION TO LOCAL NETWORK				
Lan1 Connection:		FAIL		
Lan2 Connection:		PASS		
Lan3 Connection:		FAIL		
Lan4 Connection:		FAIL		
Refresh				

In this section, we can initiate and view diagnostic test information for the WAN connectivity of this router.

THE CONNECTION TO DSL SERVICE PROVIDER

xDSL Synchronization:

FAIL

In this section, we can initiate a ping test to IPv4 and IPv6 addresses. The following parameters can be configured:

Host Name or IP Address: Enter the IPv4 address or host name of the target here and click the **Ping** button to initiate the Ping test.

Host Name or IPv6 Address: Enter the IPv6 address or host name of the target here and click the **Ping** button to initiate the Ping test.

PING TEST	
Host Name or IP Address :	Ping
Host Name or IPv6 Address :	Ping
Enter a host name or IP address above and click	'Ping'

Schedules

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

On this page we can configure time and date schedules used by this router.

D-I ii					
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
ADMIN	SCHEDULES				Helpful Hints
TIME SYSLOG	The Schedule configura Server", "Port Forwardii	N", "Wireless", "Virtual	 Schedules are used with a number of other features to define when 		
EMAIL SETTINGS	10 ADD SCHEDULE	RULE			those features are in effect.
SYSTEM FIRMWARE DYNAMIC DNS DIAGNOSTICS		Name : Day(s) : O All Week	Select Day(s) Tue Wed The	u 🗖 Fri 🗖 Sat	 Give each schedule a name that is meaningful to you. For example, a schedule for Monday through Friday from 3:00pm to 9:00pm, 9:00pm
SCHEDULES	All Da Tin S	y - 24 hrs : he Format : 12-hour ▼ Start Time : 12 : 0 End Time : 11 : 59 Add	AM v (hour:minute) PM v (hour:minute) Cancel		Gick Add to add a completed schedule to the list below. Cick Edit icon to change an existing schedule. Cick Delete icon to
	SCHEDULE RULES LI	ST Day(s)	Time Fr	ame	ence before icon to permanently delete a schedule. More

- Name: Enter the name for the time and date schedule here.
- Days(s): Select the All Week option to use all the weekdays for this schedule. Select the Select Day(s) option to use only the selected days in the week.
- All Day 24 hrs: Tick this option to use all the hours in a day.
- Time Format: Select the time format here. Options to choose from are **12-hour** and **24-hour**.

Start Time: If, the **All Day** option is not selected, enter the starting time here. **End Time:** If the **All Day** option is not selected, enter the ending time here.

Click the **Add** button to add this schedule into the schedule rules list. Click the **Cancel** button to discard the changes made.

In this section, we can view and modify time schedule rules.

Click the Sicon to modify the specific entry.

- Click the 🖤 icon to delete the specific entry.
- Click the **Save Settings** button to accept the changes made.

Click the **Don't Save Settings** button to discard the changes made.

10 -- ADD SCHEDULE RULE

Name: Day(s):	 ○ All Week
All Day - 24 hrs :	
Time Format :	12-hour
Start Time :	12 : 0 AM 🗸 (hour:minute)
End Time:	11 : 59 PM 💌 (hour:minute)
	Add Cancel

SCHEDULE RULES LIST				
Name	Day(s)	Time Frame		
BusinessHours	MON, TUE, WED, THU, FRI	8:00 ~ 18:00	F	T

Status Category

The **Status** category is designed to assist the user with information display pages, concerning the configuration and behavior of this product.

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

- **Device Info** On this page we can view General, WAN, LAN, and Wireless information about this router.
- Logs On this page we can view and configure the system log settings for this router.
- **Statistics** On this page we can view LAN, WAN, and Wireless interface statistics for this router.
- Internet Sessions On this page we can view active Internet session information of this router.
- **Wireless** On this page we can view a list of wireless clients connected to this router.
- **Routing** On this page we can view a list of active IPv4 routing sessions on this router.
- **IPv6** On this page we can view IPv6 Internet and networks connection details on this router.
- **IPv6 Routing** On this page we can view a list of active IPv6 routing sessions on this router.



Device Info

To access the **Device Info** page, click on the **Status** menu link, at the top, and then click on the **Device Info** menu link, on the left.

On this page we can view General, WAN, LAN, and Wireless information about this router.

	-				
	กเรื่อ				
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
DEVICE INFO	DEVICE INFORMATIO	N			Helpful Hints
LOGS	All of your Internet and	d network connection det	ails are displayed on this p	age. The firmware	All of your LAN, Internet and WIRELESS
STATISTICS	version is also displayed	I here.			802.11 N connection
INTERNET SESSIONS	GENERAL				here.
WIRELESS		Time : 2000/01/01	04:13:53		More
ROUTING	Firmwai	re Version : AU_1.02.04	Tue 21 Jan 2014		
IPv6	DSL Firmwa	re Version : A2pG038i.d.	24h		
IPV6 ROUTING	DSL L	ine State : Disabled			
LOGOUT	DSL Line Rate -	Upstream : 0 (Kbps)			
	DSL Line Rate - Dov	wnstream : 0 (Kbps)			
	mydlir	nk Service : Non-Registe	red		
	WAN				
		Interface : PVC1 V			
	Connec	tion Type : PPPoE			
	Netwo	rk Status : Disconnecte	d		
		Connect	Disconnect		
	Connection	n Up Time: 0 Day 0 Hou	ır 0 Min 0 Sec		
	MAG	C Address : 00:50:ba:11	:22:56		
	Loca	al address : 0.0.0.0			
	Sub	onet Mask : 0.0.0.0			
	Pee	er address : 0.0.0.0			
	Primary D	NS Server : 0.0.0.0			
	Secondary D	NS Server : 0.0.0.0			
	LAN				

In this section, we can view general information about this router.

GENERAL

Time :2000/01/01 04:14:47Firmware Version :AU_1.02.04 Tue 21 Jan 2014DSL Firmware Version :A2pG038i.d24hDSL Line State :DisabledDSL Line Rate - Upstream :0 (Kbps)DSL Line Rate - Downstream :0 (Kbps)mydlink Service :Non-Registered

In this section, we can view information regarding the WAN connection of this router.



In this section, we can view information regarding the LAN connection of this router.

LAN

MAC Address : 00:50:ba:11:22:54 IP Address : 192.168.1.1 Subnet Mask : 255.255.255.0 DHCP Server : Enabled In this section, we can view information regarding the 2.4GHz band wireless connection of this router.

WIRELESS LAN

Wireless Radio : Enabled MAC Address : 00:50:ba:11:22:54 802.11 Mode : Mixed 802.11n, 802.11g and 802.11b Channel Width : 20/40MHz Channel : 11 Network Name (SSID) : D-Link DSL-2890AL Wi-Fi Protected Setup : Enabled/Unconfigured Security : Disabled Guest Zone Wireless Radio : Disabled Guest Zone Network Name : D-Link DSL-2890AL_GUEST (SSID) Guest Zone Security : Disabled

In this section, we can view information regarding the 5GHz band wireless connection of this router.

WIRELESS LAN2

Wireless Radio : EnabledMAC Address : 00:50:ba:11:22:55802.11 Mode : Mixed 802.11ac, 802.11n and 802.11aChannel Width : 20/40/80MHzChannel : 36Network Name (SSID) : D-Link DSL-2890AL_5GHzWi-Fi Protected Setup : Enabled/UnconfiguredSecurity : DisabledGuest Zone Wireless Radio : D-Link DSL-2890AL_5GHz_GUESTGuest Zone Network Name : D-Link DSL-2890AL_5GHz_GUESTGuest Zone Security : Disabled

In this section, we can view a list of local computers connected to the LAN ports of this router.

LAN COMPUTERS		
MAC Address	IP Address	Name(if any)
00:23:7d:bc:2e:18	192.168.1.8	

In this section, we can view IGMP multicast memberships.

IGMP MULTICAST MEMBERSHIPS	IGMP	MULT	ICAST	MEM	BERSH	IPS
----------------------------	------	------	-------	-----	-------	-----

IPv4 Multicast Group Address

IPv6 Multicast Group Address

Logs

To access the Logs page, click on the Status menu link, at the top, and then click on the Logs menu link, on the left.

On this page we can view and configure the system log settings for this router.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

In this section, we can initiate the saving of the log file to the management computer.

Click the **Save** button to download the log file to the management computer.

D-Lit	ik				=
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
DEVICE INFO	VIEW LOG				Helpful Hints
LOGS	The View Log displays t	he activities occurring on	the router.		 Click on the Save button to save log file to
STATISTICS	Save Settings		local hard drive which can later send to the network administrator for		
WIRELESS	SAVE LOG ETLE				troubleshooting.You can also select what type of
ROUTING					event you would like to be logged from Log Type
IPv6	Save Log File To Local H		& Level. • Check the log		
IPV6 ROUTING	LOG TYPE & LEVEL		frequently to detect unauthorized network		
	Log Type: System	Firewall & Securi	ty Route	rr Status	• You can also have the log mailed to you periodically. Refer to Tools -> EMail .
	LOG FILES		• more		
	First Page Last Page	Previous Next Cle	ar] Link To Email Log Se	ettings	
	1/1				
	Time	Message			
	Sat Jan 1 04:09:09 2000	Web logout from 192.1	68.1.8		
	Sat Jan 1 04:04:26 2000	Web logout from 192.1	68.1.8		
	Sat Jan 1 03:57:16 2000	Web logout from 192.1	68.1.8		
	Sat Jan 1 03:48:41 2000	Web logout from 192.1	68.1.8		

SAVE LOG FILE	
Save Log File To Local Hard Drive. Save	

- Log Type: Select the log type that will be displayed here. Options to choose from are System, Firewall, and Router Status.
- Log Level: Select the log level that will be displayed here. Options to choose from are Critical, Warning, and Information.

In this section, the system log will be displayed.

Click the **First Page** button to view the first page.

Click the Last Page button to view the last page.

Click the **Previous** button to view the previous page.

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

Click the **Clear** button to the log.

Click the **Link To Email Log Settings** button to navigate to the **Email Settings** configuration page.

LOG TYPE & LEVEL		
Log Type: System	Firewall & Security	Router Status
Log Level: 🔘 Critical	O Warning	 Information

LOG FILES	
First Page Last Page	Previous Next Clear Link To Email Log Settings
1/1	
Time	Message
Sat Jan 1 04:09:09 2000	Web logout from 192.168.1.8
Sat Jan 1 04:04:26 2000	Web logout from 192.168.1.8
Sat Jan 1 03:57:16 2000	Web logout from 192.168.1.8
Sat Jan 1 03:48:41 2000	Web logout from 192.168.1.8
Sat Jan 1 01:25:52 2000	Web logout from 192.168.1.8
Sat Jan 1 00:00:35 2000	warning: no upstream servers configured
Sat Jan 1 00:00:07 2000	no servers found in /etc/resolv.conf, will retry

Statistics

To access the Statistics page, click on the Status menu link, at the top, and then click on the Statistics menu link, on the left.

On this page we can view LAN, WAN, and Wireless interface statistics for this router.

Click the **Refresh Statistics** button to refresh the information on this page. Click the **Reset Statistics** button to clear the information on the page.

D-h 1	nk						
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP		
DEVICE INFO	TRAFFIC STATISTICS				Helpful Hints		
LOGS	Traffic Statistics display	s Receive and Transmit pa	ckets passing through th	e device.	• This is a summary displaying the number of		
STATISTICS							
INTERNET SESSIONS	Refresh Statistics	Reset Statistics			and the LAN since the		
WIRELESS					More		
ROUTING	XDSL STATISTICS						
IPv6	Mode:						
IPV6 ROUTING	Status:			Disabled			
LOGOUT	Link Power State:						
			Downstream	Upstream			
	Line Coding(Trellis):						
	SNR Margin (0.1 dB):						
	Attenuation (0.1 dB):				-		
	Output Power (0.1 dB	m):					
	Attainable Rate (Kbps)	:					
	Rate (Kbps)						
	Super Frames						
	Super Frame Errors:						
	RS Words:						
	RS Correctable Errors:						
	RS Uncorrectable Error	5:					
	HEC Errors:						
	OCD Errors:						

In this section, we can view XDSL statistics.

Click the **xDSL BER Test** button to initiate the xDSL BER test.

XDSL STATISTICS		
Mode:		
Status:		Disabled
Link Power State:		
	Downstream	Upstream
Line Coding(Trellis):		
SNR Margin (0.1 dB):		
Attenuation (0.1 dB):		
Output Power (0.1 dBm):		
Attainable Rate (Kbps):		
Rate (Kbps)		
Super Frames:		
Super Frame Errors:		
RS Words:		
RS Correctable Errors:		
RS Uncorrectable Errors:		
HEC Errors:		
OCD Errors:		
LCD Errors:		
Total Cells:		
Data Cells:		
Bit Errors:		
Total ES:		
Total SES:		
Total UAS:		
xDSL BER Test		

In this section, we can view xTM statistics.

XTM STATISTICS

In this section, we can view LAN interface statistics.

LAN STATISTICS			
Sent :	4722	Received :	4047
TX Packets Dropped :	0	RX Packets Dropped :	0
Collisions :	0	Errors :	0

WAN STATISTICS			
Sent :	46	Received :	149
TX Packets Dropped :	0	RX Packets Dropped :	0
Collisions :	0	Errors :	0

WIRELESS STATISTICS - 2.4GH	Z BAND		
Sent :	236	Received :	0
TX Packets Dropped :	0	RX Packets Dropped :	0
Collisions :	0	Errors :	0
1			

WIRELESS STATISTICS - 5GHZ	BAND		
Sent :	234	Received :	0
TX Packets Dropped :	0	RX Packets Dropped :	0
Collisions :	0	Errors :	0

In this section, we can view WAN interface statistics.

In this section, we can view 2.4GHz wireless interface statistics.

In this section, we can view 5GHz wireless interface statistics.

Internet Sessions

To access the Internet Sessions page, click on the Status menu link, at the top, and then click on the Internet Sessions menu link, on the left.

On this page we can view active Internet session information of this router.

Click the **Refresh** button to refresh the information on this page.

D-Li					
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
DEVICE INFO	INTERNET SESSION	5			Helpful Hints
LOGS	This page displays Sour	ce and Destination sessior	ns passing through the	device.	• This is a list of all
STATISTICS	Refresh				between WAN computers
INTERNET SESSIONS					and LAN computers.
WIRELESS					• Horem
ROUTING	IP	TCP Cou	int U	DP Count	
IPv6	<u>127.0.0.1</u>	0	2		
IPV6 ROUTING					

In this section, we can view active Internet sessions and information.

IP			TCP Count		UDP Count	
<u>127.0.0.1</u>			0		2	
	Protocol	NAT	Internet	State	Dir	Time Out
		58954	127.0.0.1:58954		OUT	64
	UDP	39170	127.0.0.1:53		OUT	67

Wireless

To access the Wireless page, click on the Status menu link, at the top, and then click on the Wireless menu link, on the left.

On this page we can view a list of wireless clients connected to this router.

DJ							
DSL-2890AL	SETUP	ADVANC	ED	MAINTENAN	ICE	STATUS	HELP
DEVICE INFO	CONNECTED WIRE	LESS CLIENT LIS	т				Helpful Hints
LOGS	View the wireless clie	nts that are conne	cted to the	router. (A client r	night ling	per in the list for a few	 This is a list of all
STATISTICS	minutes after an unex	pected disconnect	.)				currently connected to
INTERNET SESSIONS	NUMBER OF WIRE	ESS CLIENTS - 2	2.4GHZ BA	ND:1			More
WIRELESS	MAC Address	IP Address	Mode	Rate (Mbps)	Signal	(%)	
ROUTING	1C:7E:E5:CB:92:47	192.168.1.2	11n	13	100		
IPv6							
IPV6 ROUTING	NUMBER OF WIRE	ESS CLIENTS - 5	5GHZ BAN	D:0			
	MAC Address	IP Address	Mode	Rate (Mbps)	Signal	(%)	

In this section, we can view a list of connected 2.4GHz wireless clients.

In this section, we can view a list of connected 5GHz wireless clients.

NUMBER OF WIRELESS CLIENTS - 2.4GHZ BAND : 1					
MAC Address	IP Address	Mode	Rate (Mbps)	Signal (%)	
1C:7E:E5:CB:92:47	192.168.1.2	11n	13	100	

NUMBER OF WIREL	ESS CLIENTS - 5G	HZ BAND	:0	
MAC Address	IP Address	Mode	Rate (Mbps)	Signal (%)

Routing

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

On this page we can view a list of active IPv4 routing sessions on this router.

D-Li	n1<					
DSL-2890AL	SETUP	ADV	ANCED	1AINTENAN	CE	STATUS
DEVICE INFO	ROUTING					
LOGS	Routing Table					
STATISTICS	This page displays	the routing detai	ls configured for you	r router.		
INTERNET SESSIONS	ROUTING TABLE					
WIRELESS	KOOTING TABLE					
ROUTING	Destination	Gateway	Genmask	Metric	Iface	Creator
IPv6	192.168.69.0	0.0.0	255.255.255.0	0	INTERNET	SYSTEM
IPV6 ROUTING	192.168.7.0	0.0.0	255.255.255.0	0	LAN	SYSTEM
	192.168.1.0	0.0.0	255.255.255.0	0	LAN	SYSTEM
	239.0.0.0	0.0.0	255.0.0.0	0	LAN	SYSTEM
	0.0.0	192.168.69.1	255.255.255.255	100	INTERNET	SYSTEM

In this section, we can view a list of active routes routing through this router.

ROUTING TABLE								
Destination	Gateway	Genmask	Metric	Iface	Creator			
192.168.69.0	0.0.00	255.255.255.0	0	INTERNET	SYSTEM			
192.168.7.0	0.0.0.0	255.255.255.0	0	LAN	SYSTEM			
192.168.1.0	0.0.00	255.255.255.0	0	LAN	SYSTEM			
239.0.0.0	0.0.0.0	255.0.0.0	0	LAN	SYSTEM			
0.0.0.0	192.168.69.1	255.255.255.255	100	INTERNET	SYSTEM			

IPv6

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

On this page we can view IPv6 Internet and networks connection details on this router.

DJ					
DSL-2890AL	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
DEVICE INFO	IPV6 NETWORK INF	ORMATION			Helpful Hints
LOGS	All of your IPv6 Internet and network connection details are displayed on this page. All of your WAN and				
STATISTICS	LAN connection details are displayed here.				
INTERNET SESSIONS	IPV6 CONNECTION I	INFORMATION			• More
WIRELESS	IPv6 Conne	ction Type: Link-Local			
ROUTING	IPv6 Defaul	t Gateway : None			
IPv6	LAN IPv6 Link-Loc	al Address : fe80::9294:	e4ff:fe3e:951e /64		
IPV6 ROUTING		20			
	LAN 1PV6 COMPUTE	6			
	IPv6 Address		Name(if any)		

In this section, we can view IPv6 connection information.

IPV6 CONNECTION INFORMATION			
IPv6 Connection Type : Link-Local			
IPv6 Default Gateway : None			
LAN IPv6 Link-Local Address : fe80::9294:e4ff:fe3e:951e /64			

In this section, we can view a list of LAN IPv6 computers connected to this router.

LAN IPV6 COMPUTERS

IPv6 Address

Name(if any)

IPv6 Routing

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

On this page we can view a list of active IPv6 routing sessions on this router.



In this section, we can view active IPv6 routes routing through this router.

IPV6 ROUTING TABLE			
Destination IP	Gateway	Metric	Interface

Help Category

The Help category is designed to assist the user with helpful information about every topic found on the web user interface of this product.

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

- **Menu** On this page the user can navigate easily to any page throughout the menu structure to access help information.
- **Setup** On this page the user can read more about topics discussed in the Setup category.
- Advanced On this page the user can read more about topics discussed in the Advanced category.
- **Maintenance** On this page the user can read more about topics discussed in the Maintenance category.
- **Status** On this page the user can read more about topics discussed in the Status category.



Knowledge Base

Networking Basics

Check your IP address

After you installed your new network or wireless adapter, by default, the TCP/IP settings should be set to obtain an IP address automatically from a DHCP server. By default the DHCP server option on your router is enabled.

To verify your IP address, please follow the steps below:

- Click on the Windows Start button and open the Run application.
- In the **Open** box type *cmd* and click **OK**.
- At the command prompt, type in the command *ipconfig* and press Enter. This will display the **IP address**, **Subnet Mask**, and the **Default Gateway** of your adapter. If the address is 0.0.0.0, it means that your network adapter did not receive an IP address from the DHCP server. Check your adapter installation, security settings, and the settings on your router. Some firewall software programs may block a DHCP request on newly installed adapters.

Administrator: C:\Windows\system32\cmd.exe
C:\>ipconfig
Windows IP Configuration
Ethernet adapter Local Area Connection:
Connection-specific DNS Suffix .: Link-local IPv6 Address : fe80::912e:7e75:5d2c:aef%11 IPv4 Address : 192.168.69.150 Subnet Mask : 255.255.255.0 Default Gateway : 192.168.69.1
Tunnel adapter isatap.{B2B1AEE6-C39F-447B-8462-50015D054EC6}:
Media State : Media disconnected Connection-specific DNS Suffix . :
Tunnel adapter Local Area Connection* 9:
Connection-specific DNS Suffix .: IPv6 Address: 2001:0:4137:9e76:f8:351d:3f57:ba69 Link-local IPv6 Address: fe80::f8:351d:3f57:ba69x18 Default Gateway: ::
C:\>_

Statically Assign an IP address

If you are not using a DHCP capable gateway/router, or you need to assign a static IP address, please follow the steps below:

- Click on the Windows Start button and navigate to the Control Panel > Network and Sharing Center and click on the Change Adapter Settings option on the left panel.
- Right-click on the Local Area Connection, which represents your network adapter, and select Properties.
- Select the Internet Protocol Version 4 (TCP/IPv4) option and click on the Properties button.
- Select Use the following IP address and enter an IP address that is on the same subnet as your router. For example: If your router is running on the IP address of 192.168.1.1, use any IP address from 192.168.1.2 to 192.168.69.254. Use the Subnet Mask of 255.255.255.0. Set Default Gateway the same as the LAN IP address of your router. Set Preferred DNS server IP address the same as the LAN IP address of your router. The Secondary DNS is not needed at this stage.
- Click the **OK** button twice to return to the **Network Connections** window.

eneral	
You can get IP settings assigned au this capability. Otherwise, you nee for the appropriate IP settings.	utomatically if your network supports d to ask your network administrator
Obtain an IP address automat	ically
Ose the following IP address:	
IP address:	192.168.0.52
S <u>u</u> bnet mask:	255.255.255.0
Default gateway:	192.168.0.1
Obtain DNS server address au	itomatically
Ose the following DNS server	addresses:
Preferred DNS server:	192.168.0.1
Alternate DNS server:	• • •
Validate settings upon exit	Ad <u>v</u> anced
	OK Cancel

Wireless Basics

Wireless products are based on industry standards to provide easy-to-use and compatible high-speed wireless connectivity within your home, business or public access wireless networks. Strictly adhering to the IEEE standard, the wireless family of products will allow you to securely access the data you want, when and where you want it. You will be able to enjoy the freedom that wireless networking delivers.

A wireless local area network (WLAN) is a cellular computer network that transmits and receives data with radio signals instead of wires. Wireless LANs are used increasingly in both home and office environments, and public areas such as airports, coffee shops and universities. Innovative ways to utilize WLAN technology are helping people to work and communicate more efficiently. Increased mobility and the absence of cabling and other fixed infrastructure have proven to be beneficial for many users.

Wireless users can use the same applications they use on a wired network. Wireless adapter cards used on laptop and desktop systems support the same protocols as Ethernet adapter cards.

Under many circumstances, it may be desirable for mobile network devices to link to a conventional Ethernet LAN in order to use servers, printers or an Internet connection supplied through the wired LAN. A Wireless Router is a device used to provide this link.

What is Wireless?

Wireless or Wi-Fi technology is another way of connecting your computer to the network without using wires. Wi-Fi uses radio frequency to connect wirelessly, so you have the freedom to connect computers anywhere in your home or office network.

How does Wireless work?

Wireless works similar to how cordless phone work, through radio signals to transmit data from one point A to point B. But wireless technology has restrictions as to how you can access the network. You must be within the wireless network range area to be able to connect your computer. There are two different types of wireless networks Wireless Local Area Network (WLAN), and Wireless Personal Area Network (WPAN).

Wireless Local Area Network (WLAN)

In a wireless local area network, a device called an Access Point (AP) connects computers to the network. The access point has a small antenna attached to it, which allows it to transmit data back and forth over radio signals. With an indoor access point as seen in the picture, the signal can travel up to 300 feet. With an outdoor access point the signal can reach out up to 30 miles to serve places like manufacturing plants, industrial locations, college and high school campuses, airports, golf courses, and many other outdoor venues.

Wireless Personal Area Network (WPAN)

Bluetooth is the industry standard wireless technology used for WPAN. Bluetooth devices in WPAN operate in a range up to 30 feet away. Compared to WLAN the speed and wireless operation range are both less than WLAN, but in return it doesn't use nearly as much power which makes it ideal for personal devices, such as mobile phones, PDAs, headphones, laptops, speakers, and other devices that operate on batteries.
Who uses wireless?

Wireless technology has become so popular in recent years that almost everyone is using it, whether it's for home, office, business, we have a wireless solution for it.

Home

- Gives everyone at home broadband access.
- Surf the web, check email, instant message, etc...
- Gets rid of the cables around the house.
- Simple and easy to use.

Small Office and Home Office

- Stay on top of everything at home as you would at office.
- Remotely access your office network from home.
- Share Internet connection and printer with multiple computers.
- No need to dedicate office space.

Where is wireless used?

Wireless technology is expanding everywhere not just at home or office. People like the freedom of mobility and it's becoming so popular that more and more public facilities now provide wireless access to attract people. The wireless connection in public places is usually called "hotspots".

Using a Wireless Cardbus Adapter with your laptop, you can access the hotspot to connect to Internet from remote locations like: Airports, Hotels, Coffee Shops, Libraries, Restaurants, and Convention Centers.

Wireless network is easy to setup, but if you're installing it for the first time it could be quite a task not knowing where to start. That's why we've put together a few setup steps and tips to help you through the process of setting up a wireless network.

<u>Tips</u>

Here are a few things to keep in mind, when you install a wireless network.

Centralize your router or Access Point

Make sure you place the router/access point in a centralized location within your network for the best performance. Try to place the router/access point as high as possible in the room, so the signal gets dispersed throughout your home. If you have a two-story home, you may need a repeater to boost the signal to extend the range.

Eliminate Interference

Place home appliances such as cordless telephones, microwaves, and televisions as far away as possible from the router/access point. This would significantly reduce any interference that the appliances might cause since they operate on same frequency.

Security

Don't let your next-door neighbors or intruders connect to your wireless network. Secure your wireless network by turning on the WPA or WEP security feature on the router. Refer to product manual for detail information on how to set it up.

Wireless Modes

There are basically two modes of networking:

- Infrastructure All wireless clients will connect to an access point or wireless router.
- Ad-Hoc Directly connecting to another computer, for peer-to-peer communication, using wireless network adapters on each computer, such as two or more wireless network Cardbus adapters.

An Infrastructure network contains an Access Point or wireless router. All the wireless devices, or clients, will connect to the wireless router or access point. An Ad-Hoc network contains only clients, such as laptops with wireless Cardbus adapters. All the adapters must be in Ad-Hoc mode to communicate.

Wireless Security

This section will show you the different levels of security you can use to protect your data from intruders. The router offers wireless security options like WPA/WPA2 PSK/EAP.

What is WPA?

WPA (Wi-Fi Protected Access) is a Wi-Fi standard that was designed to improve the security features of WEP (Wired Equivalent Privacy).

The 2 major improvements over WEP:

- Improved data encryption through the Temporal Key Integrity Protocol (TKIP). TKIP scrambles the keys using a hashing algorithm and, by adding an integritychecking feature, ensures that the keys haven't been tampered with. WPA2 is based on 802.11i and uses Advanced Encryption Standard (AES) instead of TKIP.
- User authentication, which is generally missing in WEP, through the extensible authentication protocol (EAP). WEP regulates access to a wireless network based on
 a computer's hardware-specific MAC address, which is relatively simple to be sniffed out and stolen. EAP is built on a more secure public-key encryption system to
 ensure that only authorized network users can access the network.

WPA-PSK/WPA2-PSK uses a passphrase or key to authenticate your wireless connection. The key is an alpha-numeric password between 8 and 63 characters long. The password can include symbols (!?*&_) and spaces. This key must be the exact same key entered on your wireless router or access point.

WPA/WPA2 incorporates user authentication through the Extensible Authentication Protocol (EAP). EAP is built on a more secure public key encryption system to ensure that only authorized network users can access the network.

Frequently Asked Questions

What can I do if my Router is not working correctly?

There are a few quick steps you can take to try and resolve any issues:

- Check that all the cables are firmly connected at both ends.
- Check that all the corresponding LED indicators are on, especially the Power, DSL, and LAN LED indicators.
- Ensure that the settings on the WAN Service page in the Web User Interface are the same as the settings that have been provided to you by your ISP.

Why can't I get an Internet connection?

For ADSL ISP users, please contact your ISP to make sure the service has been enabled/connected by your ISP and that your ISP username and password are correct.

What can I do if I forgot my web UI login password?

If you forgot your password, you must reset your router. Unfortunately this process will change all your settings back to the factory defaults.

To reset the router, locate the reset button (hole) on the rear panel of the unit. With the router powered on, use a paperclip to hold the button down for 10-15 seconds. Release the button and the router will go through its reboot process. Wait about 30 seconds to access the router. The default IP address is **192.168.1.1**. When logging in, the username is '**admin**' and the password is '**admin**'.

How to set up other PVCs for IPTV and using IGMP?

- 1. Contact your ISP to make sure that the IPTV service has been enabled/connected.
- 2. Go to SETUP -> INTERNET, and click the Manual Internet Connection Setup button. Make sure the PVC settings, usually PVC2, the ATM settings, and Internet Connection settings are correct. When a deactivated PVC setting is used, select the Active check box to enable the PVC.
- 3. Go to ADVANCED -> ADVANCED NETWORK, and select the Enable IPv4 Multicast Streams check box to enable the IGMP service.

Technical Specifications

Hardware Specifications

- LAN Interface: Four 10/100/1000Mbps LAN ports
- DSL Interface: One RJ11 Internet port
- Wireless Interface (2.4Ghz): IEEE 802.11b/g/n
- Wireless Interface (5Ghz): IEEE 802.11a/n
- USB Interface: Complaint USB 2.0 and USB 3.0

Operating Voltage

- Input: 100~240V (±10%), 50~60Hz
- Output: DC12V, 2.5A

Temperature

- Operating: 32°F~104°F (0°C~40°C)
- Non-Operating: -4°F~149°F (-20°C~70°C)

Humidity

- Operating: 10%~90% non-condensing
- Non-Operating: 5%~95% non-condensing

ADSL Standards

- ANSI T1.413 Issue 2
- ITU G.992.1 (G.dmt) Annex A
- ITU G.992.2 (G.lite) Annex A
- ITU G.994.1 (G.hs)

ADSL2 Standards

- ITU G.992.3 (G.dmt.bis) Annex A
- ITU G.992.4 (G.lite.bis) Annex A

ADSL2+ Standards

• ITU G.992.5 Annex A

Technical Specifications

ADSL Data Transfer Rate

- G.dmt full rate downstream: up to 8 Mbps / upstream: up to 1 Mbps
- G.lite: ADSL downstream up to 1.5 Mbps / upstream up to 512 Kbps
- G.dmt.bis full rate downstream: up to 12 Mbps / upstream: up to 12 Mbps
- ADSL full rate downstream: up to 24 Mbps / upstream: up to 1 Mbps

Wireless Frequency Range

- IEEE 802.11a: 5150 MHz~5350 MHz
- IEEE 802.11b: 2400 MHz~2497 MHz
- IEEE 802.11g: 2400 MHz~2497 MHz
- IEEE 802.11n: 2400 MHz~2497 MHz, 5150 MHz~5350 MHz

Wireless Bandwidth Rate

- IEEE 802.11a: 54, 48, 36, 24, 18, 12, 9, and 6 Mbps
- IEEE 802.11b: 11, 5.5, 2, and 1 Mbps
- IEEE 802.11g: 54, 48, 36, 24, 18, 12, 9, and 6 Mbps
- IEEE 802.11an: 6.5 to 450 Mbps
- IEEE 802.11gn: 6.5 to 300 Mbps

Wireless Channel Numbers

- IEEE 802.11a: Channels 36~64
- IEEE 802.11b: Channels 1~11 (USA), 1~13 (Europe), 1~14 (Japan)
- IEEE 802.11g: Channels 1~11 (USA), 1~13 (Europe), 1~14 (Japan)
- IEEE 802.11n: Channels 1~11 (USA), 1~13 (Europe), 1~14 (Japan), Channels 36~64

Antenna Type

• Five Internal Antennas (Two 2.4 GHz Antennas, Three 5 GHz Antennas)

Wireless Security

64/128bit WEP, WPA/WPA2-Personal, WPA/WPA2-Enterprise, WPS (PIN & PBC)

Dimensions & Weight

- 213 x 173 x 52 mm (8.39 x 6.81 x 2.05 in)
- 405.52 grams (0.89 lbs)

Certifications

• FCC P68/P15B, CE, A-tick.