



# User Manual

## 4G LTE Router

DWR-921

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# Preface

D-Link reserves the right to revise this publication and to make changes in the content hereof without obligation to notify any person or organization of such revisions or changes.

## Manual Revisions

Revision	Date	Description
2.00	March 01, 2018	• Initial release

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### **ErP Power Usage**

This device is an Energy Related Product (ErP) with High Network Availability (HiNA), and automatically switches to a power-saving Network Standby mode within 1 minute of no packets being transmitted. It can also be turned off through a power switch to save energy when it is not needed.

Network Standby: 2.793 watts

Switched Off: 0.083 watts

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# Package Contents



DWR-921 4G LTE Router



Power Adapter



3G/4G Antennas



RJ45 Cable

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

# System Requirements

- A compatible mini-SIM/UICC card with service.\*
- Computer with Windows, Mac OS, or Linux-based operating system with an installed Ethernet adapter
- Java-enabled browser such as Internet Explorer 6, Safari 4.0, Chrome 20.0, or Firefox 7 or above (for configuration)

\* Subject to services and service terms available from your carrier.

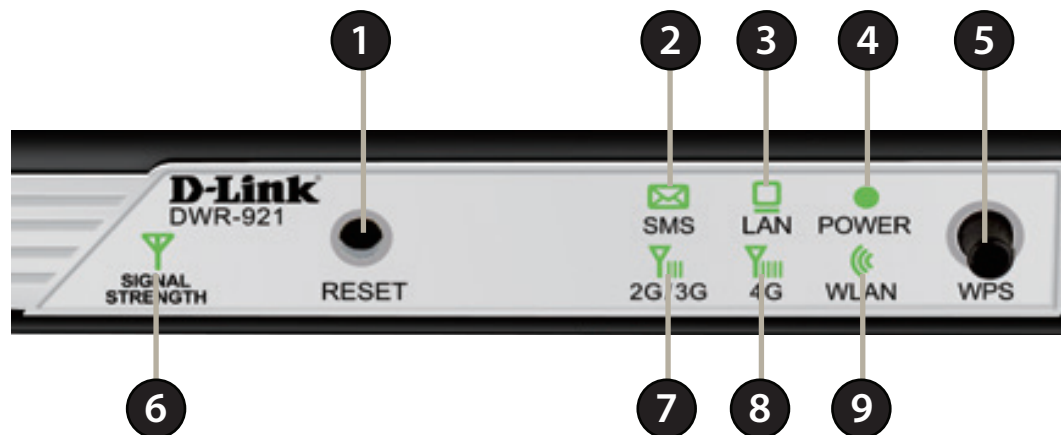
# Introduction

The D-Link 4G LTE Router allows users to access worldwide mobile broadband networks. Once connected, users can transfer data, stream media, and send SMS messages. Simply insert your 3G / 4G SIM card, and share your 3G / 4G Internet connection through an 802.11n wireless network or using any of the four 10/100 Ethernet ports.

The 4G LTE Router can be installed quickly and easily almost anywhere. This router is great for situations where an impromptu wireless network must be set up, or wherever conventional network access is unavailable.

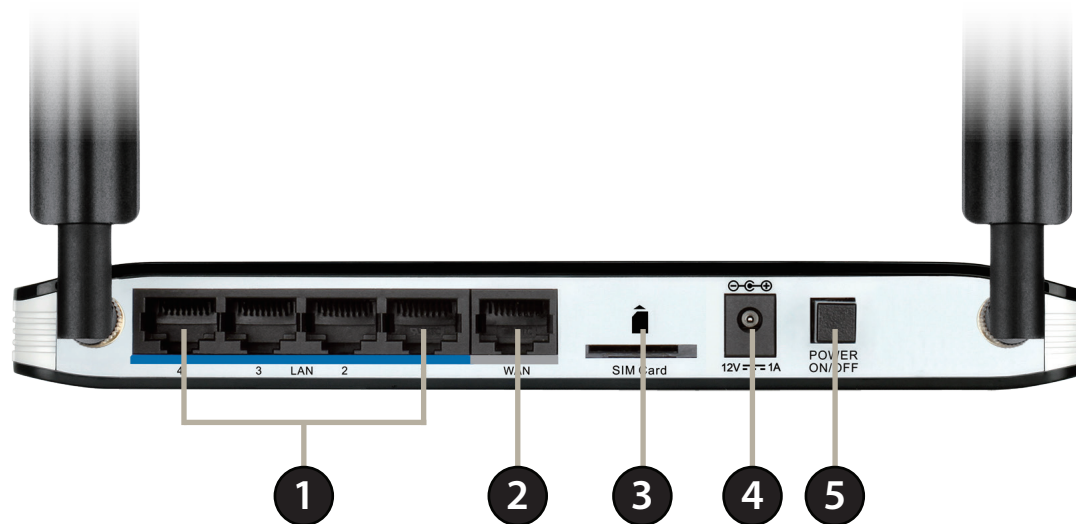
# Hardware Overview

## Front View



1	<b>Reset Button</b>	Press this button with an unfolded paperclip and hold for ten seconds to reset the device.
2	<b>SMS LED</b>	Will be solid green if the SMS inbox is full, or blinking if there is an unread new SMS message.
3	<b>LAN LED</b>	Will be lit if an Ethernet connection is established, and will blink when data is being transferred.
4	<b>Power LED</b>	Will be lit if the device is powered on and working.
5	<b>WPS Button</b>	Press this button to initiate a new WPS connection. See <b>WPS Button</b> on page 59 for details.
6	<b>Signal Strength LED</b>	Will blink red if there is no SIM card / signal. Solid red/amber/green indicates the signal strength.
7	<b>2G/3G LED</b>	Will be lit if a 2G or 3G connection is established, and will blink when data is being transferred.
8	<b>4G LED</b>	Will be lit if a 4G LTE connection is established, and will blink when data is being transferred.
9	<b>WLAN LED</b>	Will be lit if the wireless function is enabled, and will blink when wireless data is being transferred.

## Back View



1	<b>Ethernet LAN Ports</b>	For connection to a network-enabled desktop or notebook computer.
2	<b>Ethernet WAN Port</b>	For connection to a DSL/cable modem or router.
3	<b>SIM Card Slot</b>	Accepts a standard (U)SIM card for 3G/4G LTE connectivity.
4	<b>Power Connector</b>	Connects to the included power adapter.
5	<b>Power Button</b>	Turns the device on or off.



# Installation

This section will guide 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 an attic or garage.

## Before You Begin

Ensure that your DWR-921 4G LTE Router is disconnected and powered off before performing the steps below..

1. Verify that your SIM/UICC card is installed and has been activated by your carrier. To install your SIM/UICC card, insert it into the slot with the gold contacts facing down. Push gently until it locks into place.

**Caution:** Always unplug/power down the router before installing or removing the SIM/UICC card. Never insert or remove the SIM/UICC card while the router is in use.

2. Attach the included antennas to the back of the router, screwing them in clockwise. Arrange them so that they point upward.
3. Connect the power adapter to the socket on the back panel of your DWR-922. Plug the other end of the power adapter into a wall outlet or power strip. Make sure the power button is in the "On" position.
  - a. The Power LED will light up to indicate that power is being supplied to the router and the router is turned on.
  - b. The LEDs on the front panel will flash on and off as the DWR-922 Mobile Router performs initialization and Internet connection processes.
  - c. After a few moments, if a connection has been established, the following LEDs will turn solid green: Power, Signal Strength, WLAN, LAN (if connected), and either 2G/3G or 4G.

**Note:** By default, the DWR-922 uses the mobile network as the sole Internet connection. If you wish to use your mobile connection as a backup to a wired connection, or you wish to use a wired connection exclusively, you must use the Setup Wizard or Configure WAN service manually.

4. Connect via Wi-Fi using the SSID and password printed on the bottom of the router, or through Ethernet via one of the LAN ports on the back of your DWR-922.

# Wireless Installation Considerations

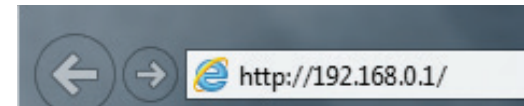
The DWR-921 can be accessed using a wireless connection from anywhere within the operating range of your wireless network. Keep in mind that the quantity, thickness, and location of walls, ceilings, or other objects that the wireless signals must pass through may limit the range of the wireless signal. Ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or office. The key to maximizing the wireless range is to follow these basic guidelines:

1. Minimize the number of walls and ceilings between the D-Link router and other network devices. Each wall or ceiling can reduce your adapter's range from 3 to 90 feet (1 to 30 meters).
2. Be aware of the direct line between network devices. A wall that is 0.5 meters (1.5 feet thick), at a 45-degree angle appears to be almost 1 meter (3 feet) thick. At a 2-degree angle it looks over 14 meters (42 feet) thick. Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
3. Try to position access points, wireless routers, and computers so that the signal passes through open doorways and drywall. Materials such as glass, metal, brick, insulation, concrete, and water can affect wireless performance. Large objects such as fish tanks, mirrors, file cabinets, metal doors, and aluminum studs may also have a negative effect on range.
4. If you are using 2.4 GHz cordless phones, make sure that the 2.4 GHz phone base is as far away from your wireless device as possible. The base transmits a signal even if the phone is not in use. In some cases, cordless phones, X-10 wireless devices, and electronic equipment such as ceiling fans, fluorescent lights, and home security systems may dramatically degrade wireless connectivity.

# Configuration

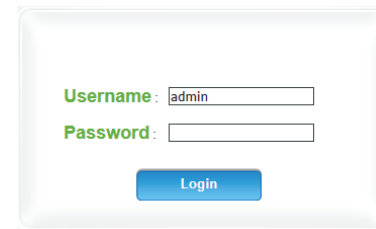
## Getting Started

To access the configuration utility, open a web browser such as Internet Explorer and enter the address of the router (**192.168.0.1** by default).



To log in to the configuration utility, **admin** is the default username and the default password is blank.

**Note:** If you get a **Page Cannot be Displayed** error, please refer to the **Troubleshooting** section for assistance.



Once you have successfully logged in, you will see the **Home** page. On this page you can view information about your Internet connection, the wireless/LAN status, and system information.

At the top of the page is a menu. Clicking on one of these icons will take you to the appropriate configuration section.

On each page, fill out the desired settings and click **Apply** when you are done or **Reset** to revert to the old settings.



# Internet WAN Service

On this page you can configure your Internet connection. If you are not sure which settings to use, please contact your Internet Service Provider (ISP).

**My Internet Connection is:** Select the Internet connection type specified by your ISP. The corresponding settings will be displayed below. Please see the following sections for details on how to configure these different connection types.

## Dynamic IP (DHCP)

**Host Name:** If the Internet host you are using requires you to enter a host name, enter it here. In most cases, you may leave this blank.

**Primary DNS Server:** (Optional) Fill in with IP address of primary DNS server.

**Secondary DNS Server:** (Optional) Fill in with IP address of secondary DNS server.

**MTU:** You may need to change the Maximum Transmission Unit (MTU) for optimal performance. The default value is 0.

**MAC Address:** The default MAC address is set to the WAN port's physical interface MAC address on the router. It is not recommended that you change the default MAC address unless required by your ISP. You can use the **Clone** button to replace the WAN port's MAC address with the MAC address of your PC.

The screenshot shows the D-Link WAN Service Configuration page. The navigation bar includes Home, Internet, Wi-Fi, LAN, Advanced, and System. The main content area is titled 'WAN Service Configuration'. Under 'Internet Connection Type', 'Dynamic IP (DHCP)' is selected. The 'Dynamic IP (DHCP) Internet Connection Type' section contains the following fields and options:

- Host Name: [Text Input]
- Primary DNS Server: [Text Input]
- Secondary DNS Server: [Text Input]
- MTU: 0 (bytes)
- MAC Address: [Text Input] with a Clone button
- Auto-reconnect:  Enable
- NAT disable:  Enable

Buttons for 'Apply' and 'Refresh' are located at the bottom of the configuration area.

**Auto-reconnect:** This feature enables this product to renew the WAN IP address automatically when the lease time has expired.

**NAT disable:** Enabling this option will disable the NAT function of the DWR-921, allowing it to act as a link for your devices to your Internet connection, but without routing functions.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

The screenshot shows the D-Link WAN Service Configuration web interface. At the top, there is a navigation bar with the D-Link logo and icons for Home, Internet, Wi-Fi, LAN, Advanced, and System. A language dropdown menu is set to English, and there are Logout and Refresh buttons. On the left side, a sidebar menu shows 'WAN Service' selected, with sub-items for Wizard, Failover, and IPv6. The main content area is titled 'WAN Service Configuration' and contains the following settings:

- Internet Connection Type:** My Internet Connection is
- Dynamic IP (DHCP) Internet Connection Type:**
  - Host Name:
  - Primary DNS Server:
  - Secondary DNS Server:
  - MTU:  (bytes)
  - MAC Address:
  - Auto-reconnect:  Enable
  - NAT disable:  Enable

At the bottom of the configuration area, there are two buttons:  and .

## Static IP

**IP Address:** Enter the IP address assigned to your network connection.

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

**Default Gateway:** Enter the default gateway.

**Primary DNS Server:** Enter the primary DNS server.

**Secondary DNS Server:** Enter the secondary DNS server.

**MTU:** You may need to change the Maximum Transmission Unit (MTU) for optimal performance. The default value is 0.

**MAC Address:** The default MAC address is set to the WAN port's physical interface MAC address on the router. It is not recommended that you change the default MAC address unless required by your ISP. You can use the **Clone** button to replace the WAN port's MAC address with the MAC address of your PC.

**NAT disable:** Enabling this option will disable the NAT function of the DWR-921, allowing it to act as a link for your devices to your Internet connection, but without routing functions.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

The screenshot shows the D-Link router's configuration interface. The top navigation bar includes the D-Link logo and icons for Home, Internet, Wi-Fi, LAN, Advanced, and System. The main content area is titled 'WAN Service Configuration'. Under 'Internet Connection Type', 'My Internet Connection is' is set to 'Static IP'. The 'Static IP Address Internet Connection Type' section contains the following fields: IP Address, Subnet Mask, Default Gateway, Primary DNS Server, Secondary DNS Server, MTU (set to 0 bytes), MAC Address, and NAT disable (checkbox). A 'Clone' button is next to the MAC Address field. At the bottom of the configuration area are 'Apply' and 'Refresh' buttons.

## PPPoE (Username / Password)

**Username:** The username/account name that your ISP provides to you for PPPoE dial-up.

**Password:** Password that your ISP provides to you for PPPoE dial-up.

**Verify Password:** Re-type your password in this field.

**Service Name:** Fill in if provided by your ISP. (Optional)

**IP Address:** Fill in if provided by your ISP. If not, keep the default value.

**Primary DNS Server:** Fill in if provided by your ISP. If not, keep the default value (optional).

**Secondary DNS Server:** Fill in if provided by your ISP. If not, keep the default value (optional).

**MAC Address:** The default MAC address is set to the WAN port's physical interface MAC address on the router. It is not recommended that you change the default MAC address unless required by your ISP. You can use the **Clone** button to replace the WAN port's MAC address with the MAC address of your PC.

**Maximum Idle Time:** The amount of time of inactivity before disconnecting an established PPPoE session. Set it to zero or enable auto-reconnect to disable this feature.

**MTU:** You may need to change the Maximum Transmission Unit (MTU) for optimal performance. The default value is 0.

The screenshot shows the D-Link WAN Service Configuration page. The 'Internet Connection Type' is set to 'PPPoE (Username / Password)'. Under the 'PPPoE' section, the following fields are visible: Username, Password, Verify Password, Service Name (optional), IP Address, Primary DNS Server (optional), Secondary DNS Server (optional), and MAC Address. There is a 'Clone' button next to the MAC Address field. Below these fields are 'Maximum Idle Time' (set to 600 seconds), 'MTU' (set to 0 bytes), 'Auto-reconnect' (checked), and 'NAT disable' (unchecked). At the bottom, there are 'Apply' and 'Refresh' buttons.

**Auto-reconnect:** The device will automatically reconnect to your PPPoE connection automatically.

**NAT disable:** Enabling this option will disable the NAT function of the DWR-921, allowing it to act as a link for your devices to your Internet connection, but without routing functions.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

The screenshot shows the D-Link WAN Service Configuration web interface. At the top, there is a navigation bar with the D-Link logo and icons for Home, Internet, Wi-Fi, LAN, Advanced, and System. The main content area is titled "WAN Service Configuration" and includes a sidebar menu with options: WAN Service, Wizard, Failover, and IPv6. The "Internet Connection Type" is set to "PPPoE (Username / Password)". Under the "PPPoE" section, there are input fields for Username, Password, Verify Password, Service Name (optional), IP Address, Primary DNS Server (optional), Secondary DNS Server (optional), and MAC Address. There is a "Clone" button next to the MAC Address field. Below these fields, there are settings for Maximum Idle Time (600 seconds), MTU (0 bytes), Auto-reconnect (checked/Enabled), and NAT disable (unchecked/Disabled). At the bottom, there are "Apply" and "Refresh" buttons.



## PPTP

**Address Mode:** Choose **Static IP** only if your ISP assigns you an IP address. Otherwise, please choose **Dynamic IP**.

**PPTP IP Address:** Enter the information provided by your ISP (Only applicable for Static IP PPTP).

**PPTP Subnet Mask:** Enter the information provided by your ISP (Only applicable for Static IP PPTP).

**PPTP Gateway IP Address:** Enter the information provided by your ISP (Only applicable for Static IP PPTP).

**PPTP Server IP Address:** IP address of PPTP server.

**Username:** User/account name that your ISP provides to you for PPTP dial-up.

**Password:** Password that your ISP provides to you for PPTP dial-up.

**Verify Password:** Re-enter your password for verification.

**Reconnect Mode:** Choose **Always-on** when you want to establish PPTP connection all the time. If you choose **Connect-on-demand**, the device will establish a PPTP connection when local users want to connect to the Internet, and disconnect if there is no traffic after the time period defined by the **Maximum Idle Time** setting.

**Maximum Idle Time:** The time of no activity to disconnect your PPTP session. Set it to zero or choose **Always-on** to disable this feature.

The screenshot shows the D-Link WAN Service Configuration page. The 'Internet Connection Type' is set to 'PPTP (Username / Password)'. Under the 'PPTP' section, the 'Address Mode' is set to 'Dynamic IP'. The 'PPTP IP Address', 'PPTP Subnet Mask', 'PPTP Gateway IP Address', and 'PPTP Server IP Address' fields are empty. The 'Username' and 'Password' fields are also empty, with a 'Verify Password' field below them. The 'Reconnect Mode' is set to 'Always-on', and the 'Maximum Idle Time' is set to 600 seconds. The 'NAT disable' checkbox is unchecked. There are 'Apply' and 'Refresh' buttons at the bottom of the configuration area.

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**NAT disable:** Enabling this option will disable the NAT function of the DWR-921, allowing it to act as a link for your devices to your Internet connection, but without routing functions.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

The screenshot shows the D-Link web interface for WAN Service Configuration. The top navigation bar includes the D-Link logo and icons for Home, Internet, Wi-Fi, LAN, Advanced, and System. A sidebar on the left lists navigation options: WAN Service, Wizard, Failover, and IPv6. The main content area is titled 'WAN Service Configuration' and contains the following settings:

- Internet Connection Type:** My Internet Connection is
- PPTP:**
  - Address Mode:  Dynamic IP  Static IP
  - PPTP IP Address:
  - PPTP Subnet Mask:
  - PPTP Gateway IP Address:
  - PPTP Server IP Address:
  - Username:
  - Password:
  - Verify Password:
  - Reconnect Mode:  Always-on  Connect-on-demand
  - Maximum Idle Time:  seconds
  - NAT disable:  Enable

At the bottom of the configuration area are two buttons: **Apply** and **Refresh**.

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## L2TP

**Address Mode:** Choose **Static IP** only if your ISP assigns you an IP address. Otherwise, please choose **Dynamic IP**.

**L2TP IP Address:** Enter the information provided by your ISP (Only applicable for Static IP L2TP).

**L2TP Subnet Mask:** Enter the information provided by your ISP (Only applicable for Static IP L2TP).

**L2TP Gateway IP Address:** Enter the information provided by your ISP (Only applicable for Static IP L2TP).

**L2TP Server IP Address:** IP address of L2TP server.

**Username:** User/account name that your ISP provides to you for L2TP dial-up.

**Password:** Password that your ISP provides to you for L2TP dial-up.

**Verify Password:** Re-type your password in this field.

**Reconnect Mode:** Choose **Always-on** when you want to establish L2TP connection all the time. If you choose **Connect-on-demand** the device will establish L2TP connection when local users want to use Internet, and disconnect if no traffic after time period of Maximum Idle Time.

**Maximum Idle Time:** The time of no activity to disconnect your L2TP session. Set it to 0 or choose **Always-on to** disable this feature.

The screenshot shows the D-Link WAN Service Configuration page. The navigation menu includes Home, Internet, Wi-Fi, LAN, Advanced, and System. The main content area is titled "WAN Service Configuration" and includes a sidebar with "WAN Service" options: Wizard, Failover, and IPv6. The "Internet Connection Type" is set to "L2TP (Username / Password)". Under the "L2TP" section, the "Address Mode" is set to "Dynamic IP". The "L2TP IP Address", "L2TP Subnet Mask", "L2TP Gateway IP Address", and "L2TP Server IP Address" fields are empty. The "Username" and "Password" fields are also empty, with a "Verify Password" field below them. The "Reconnect Mode" is set to "Always-on", and the "Maximum Idle Time" is set to 600 seconds. The "NAT disable" checkbox is unchecked. "Apply" and "Refresh" buttons are at the bottom of the form.

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**NAT disable:** Enabling this option will disable the NAT function of the DWR-921, allowing it to act as a link for your devices to your Internet connection, but without routing functions.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

The screenshot shows the D-Link WAN Service Configuration page. At the top, there is a navigation bar with the D-Link logo and icons for Home, Internet, Wi-Fi, LAN, Advanced, and System. A language dropdown menu is set to English, and there are Logout and Refresh buttons. On the left side, a sidebar menu shows 'WAN Service' selected, with sub-items for Wizard, Failover, and IPv6. The main content area is titled 'WAN Service Configuration' and contains the following settings:

- Internet Connection Type:** My Internet Connection is
- L2TP:**
  - Address Mode:  Dynamic IP  Static IP
  - L2TP IP Address:
  - L2TP Subnet Mask:
  - L2TP Gateway IP Address:
  - L2TP Server IP Address:
  - Username:
  - Password:
  - Verify Password:
  - Reconnect Mode:  Always-on  Connect-on-demand
  - Maximum Idle Time:  seconds
  - NAT disable:  Enable

At the bottom of the configuration area, there are 'Apply' and 'Refresh' buttons. A small copyright notice 'Copyright © 2012 All Rights Reserved' is visible in the bottom right corner of the interface.

## 4G LTE / 3G

**Prefer Service Type:** Choose whether the DWR-921 should only use 4G networks, 3G networks, or use **Auto Mode** to automatically select a network.

**Dial Up Profile:** Select **Auto-Detection** to have the router automatically detect the settings for your connection. Select **Manual** to enter the details of your connection manually.

**Account/Profile Name:** Fill in a name to identify the following 3G/4G configuration.

**Country/Telecom:** Select your country and service provider to automatically fill in some of the required settings.

**Username:** Fill in only if requested by ISP (optional).

**Password:** Fill in only if requested by ISP (optional).

**Verify Password:** Re-type your password in this field (optional).

**Dialed Number:** Enter the number to be dialed.

**Authentication:** Select **PAP**, **CHAP**, or **Auto** detection. The default authentication method is **Auto**.

**APN:** Enter the APN information (optional).

**Pin Code:** Enter the PIN associated with your SIM card.

**Reconnect Mode:** Select **Auto** or **Manual** to determine whether the router should reconnect to your 3G/4G network automatically or manually.

The screenshot displays the 'WAN Service Configuration' interface. At the top, there are navigation icons for Home, Internet, Wi-Fi, LAN, Advanced, and System. The main content area is titled 'WAN Service Configuration' and includes a sidebar with 'WAN Service', 'Wizard', and 'Failover' options. The configuration fields are as follows:

- My Internet Connection is:** 4G LTE / 3G
- 4G LTE / 3G Internet Connection Type:**
  - Dial-Up Profile:** Radio buttons for 'Auto-Detection' and 'Manual' (selected).
  - Prefer Service Type:** Auto Mode
  - Country:** Algeria
  - Telecom:** Djazzy
  - Username:** (optional)
  - Password:** (optional)
  - Verify Password:** (optional)
  - Dialed Number:** \*99#
  - Authentication:** Auto
  - APN:** vibo (optional)
  - Pin Code:**
  - Reconnect Mode:** Radio buttons for 'Auto' (selected) and 'Manual'.
  - Maximum Idle Time:** 600 seconds
  - Primary DNS Server:**
  - Secondary DNS Server:**
  - Roaming:** Enable
  - Bridge ethernet ports:** Enable
  - NAT disable:** Enable
  - Transparent Bridge:** Enable

At the bottom, there are 'Apply' and 'Refresh' buttons.

**Maximum Idle Time:** Set the maximum time your connection can be idle before disconnecting. Set it to 0 or choose **Auto** in Reconnect Mode to disable this feature.

**Primary DNS Server:** Fill in if provided by your ISP. If not, keep the default value (optional).

**Secondary DNS Server:** Fill in if provided by your ISP. If not, keep the default value (optional).

**Roaming:** Enabling this option will allow you to connect when roaming.

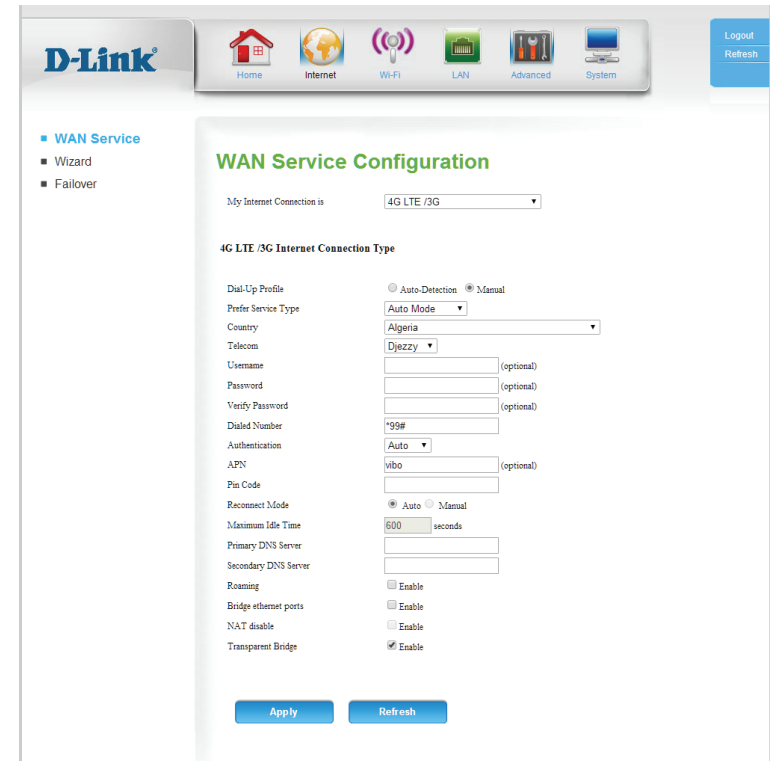
**Note:** Roaming connections may incur additional fees from your service provider.

**Bridge Ethernet Ports:** Activate this feature to use the Ethernet WAN port as an additional LAN port.

**NAT disable:** Enabling this option will disable the NAT function of the DWR-921, allowing it to act as a link for your devices to your Internet connection, but without routing functions.

**Transparent Bridge:** Enabling the Transparent Bridge function disables the routing/NAT functions and passes the public WAN IP address given by your service provider directly through to the local client or PC. This can only be used if a single IP address has been assigned by your ISP. If transparent bridge is enabled, the above DNS Check and NAT Disable options will not be available.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.



# Wizard

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

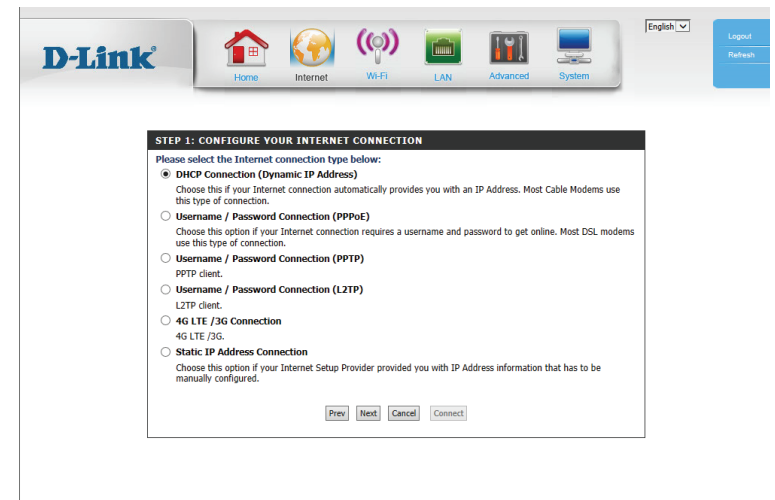
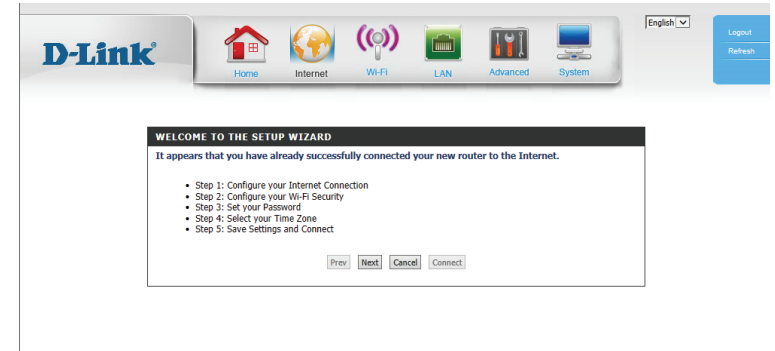
Click **Next** to continue.

**Note:** While using the wizard, you can click **Prev** to go back to the previous step, or you can click **Cancel** to close the wizard.

Select the Internet connection type you use. The connection types are explained on the following page. If you are unsure which connection type you should use, contact your Internet Service Provider (ISP).

Click **Prev** to go back to the previous page or click **Cancel** to close the wizard.

**Note:** The DWR-921 has a WAN failover feature that allows the router to switch to a 3G/4G connection if the WAN connection is down or unavailable. To configure this feature, please refer to **Failover** on page 23.



The subsequent configuration pages will differ depending on the selection you make on this page.

**DHCP Connection (Dynamic IP Address):** Choose this if your Internet connection automatically provides you with an IP address. Most cable modems use this type of connection. See **Dynamic IP (DHCP)** on page 8 for information about how to configure this type of connection.

**Username / Password Connection (PPPoE):** Choose this option if your Internet connection requires a username and password to connect. Most DSL modems use this style of connection. See **PPPoE (Username / Password)** on page 11 for information about how to configure this type of connection.

**Username / Password Connection (PPTP):** Choose this option if your Internet connection requires Point-to-Point Tunneling Protocol (PPTP). See **PPTP** on page 13 for information about how to configure this type of connection.

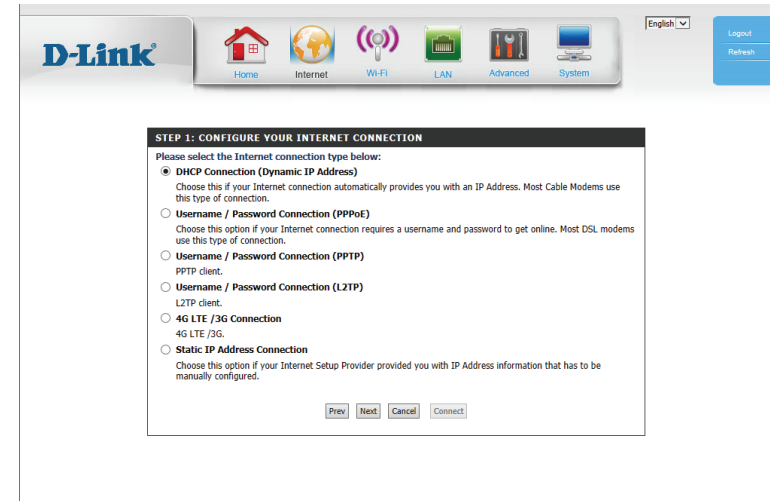
**Username / Password Connection (L2TP):** Choose this option if your Internet connection requires Layer 2 Tunneling Protocol (L2TP). See **L2TP** on page 15 for information about how to configure this type of connection.

**3G/4G Connection:** Choose this connection if you have installed a SIM card into the DWR-921. See **4G LTE / 3G** on page 17 for information about how to configure this type of connection.

**Static IP Address Connection:** Choose this option if your Internet Service Provider (ISP) provided you with IP address information that has to be manually configured. See **Static IP** on page 10 for information about how to configure this type of connection.

After entering the requested information, click **Next** to continue.

**Note:** If you are not sure what connection type to use or what settings to enter, check with your Internet Service Provider (ISP).





Enter a Wireless Network Name (SSID), then click **Next** to continue.



**D-Link** Home Internet Wi-Fi LAN Advanced System English Logout Refresh

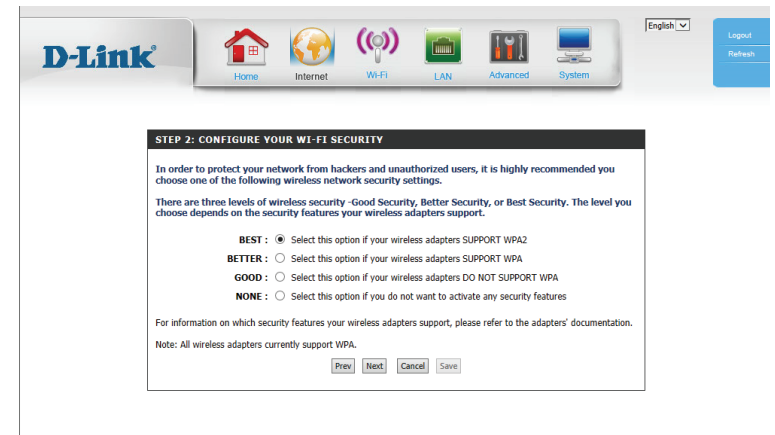
**STEP 2: CONFIGURE YOUR WI-FI SECURITY**

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

Wireless Network Name (SSID) :

Prev Next Cancel Save

Choose the best encryption level supported by your wireless clients. Click **Next** to continue.



**D-Link** Home Internet Wi-Fi LAN Advanced System English Logout Refresh

**STEP 2: CONFIGURE YOUR WI-FI SECURITY**

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

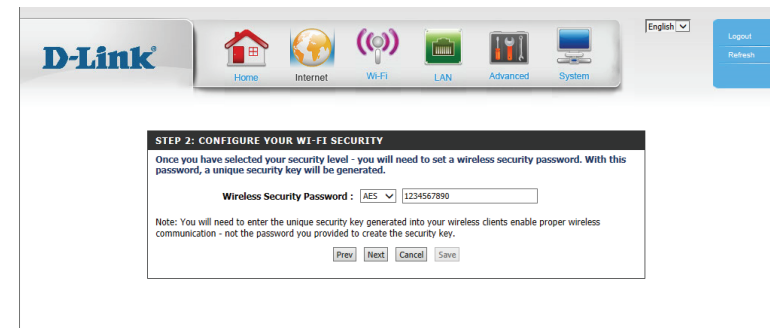
There are three levels of wireless security - Good Security, Better Security, or Best Security. The level you choose depends on the security features your wireless adapters support.

**BEST** :  Select this option if your wireless adapters SUPPORT WPA2  
**BETTER** :  Select this option if your wireless adapters SUPPORT WPA  
**GOOD** :  Select this option if your wireless adapters DO NOT SUPPORT WPA  
**NONE** :  Select this option if you do not want to activate any security features

For information on which security features your wireless adapters support, please refer to the adapters' documentation.  
Note: All wireless adapters currently support WPA.

Prev Next Cancel Save

Unless you chose **None** in the previous step, enter a strong password. Clients must enter this password to connect to your wireless network. Click **Next** to continue.



**D-Link** Home Internet Wi-Fi LAN Advanced System English Logout Refresh

**STEP 2: CONFIGURE YOUR WI-FI SECURITY**

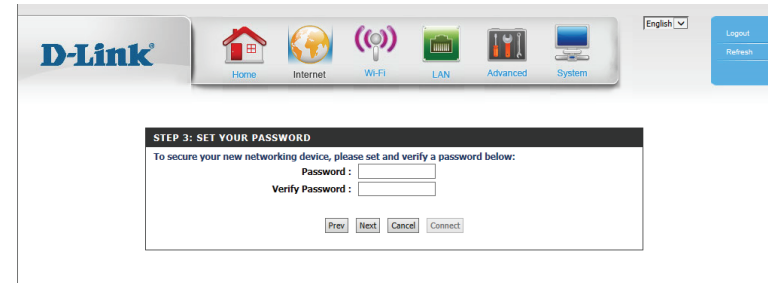
Once you have selected your security level - you will need to set a wireless security password. With this password, a unique security key will be generated.

Wireless Security Password : AES

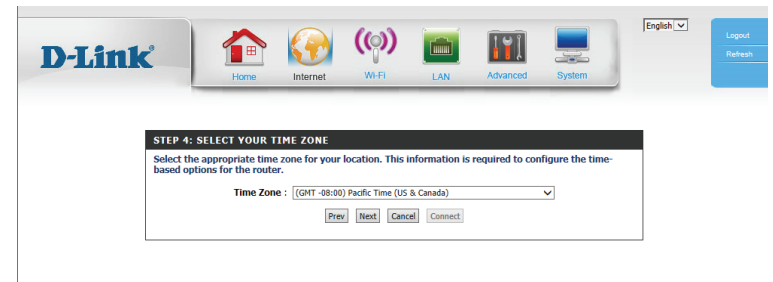
Note: You will need to enter the unique security key generated into your wireless clients enable proper wireless communication - not the password you provided to create the security key.

Prev Next Cancel Save

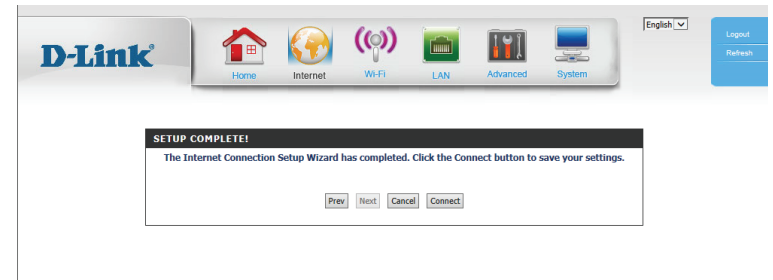
Create a new password and then click **Next** to continue.



Select your time zone from the drop-down box and then click **Next** to continue.



This completes the Internet Connection Setup Wizard. Click **Connect** to save your changes and reboot the router.



# Failover

The DWR-921's multi-WAN feature allows you to set your router to automatically switch to a secondary Internet connection if your primary Internet connection is lost. Note that you must first specify your primary Internet connection either on the **WAN Service** tab (see page 8) or the **Wizard** (see "Wizard" on page 19) before you can specify a secondary Internet connection. By default, the primary connection is 3G/4G.

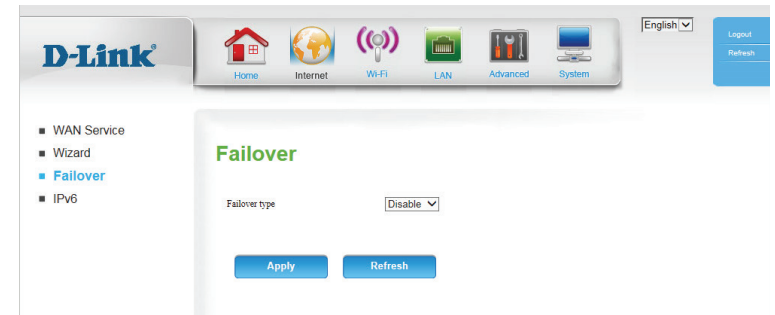
**Failover type:** Select **Failover** to enable the failover function.

**Remote Host for Keep Alive:** This option should be set to an external IP address that can be used to ensure that the 3G/4G LTE connection will be kept from going offline due to inactivity. An example would be Google's public DNS servers (8.8.8.8 or 8.8.4.4) or your Internet service provider's DNS servers.

**Primary WAN:** This will automatically be set to the currently configured Internet connection type.

**Secondary WAN:** This can be set by clicking on **Add**, the available options will be shown in the drop down box that appears.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.



# IPv6

**IPv6:** To enable IPv6, select **Enable**.

**IPv6 Connection:** Select the IPv6 connection type specified by your ISP. The corresponding settings will be displayed below. Please see the following sections for details on how to configure these different connection types.

## Link-local Only

**LAN IPv6 Link-Local Address:** Displays the IPv6 address of the router.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.



The screenshot shows the D-Link router's web interface for IPv6 configuration. The top navigation bar includes icons for Home, Internet, Wi-Fi, LAN, Advanced, and System, along with a language dropdown set to English and Login/Refresh buttons. A sidebar on the left lists navigation options: WAN Service, Wizard, Failover, and IPv6 (which is selected). The main content area is titled 'IPv6' and contains the following settings:

- Choose the mode to be used by the router to connect to the IPv6 Internet.**
- IPv6:**  Disable  Enable
- IPv6 Connection:** Link-local Only (dropdown menu)
- LAN IPv6 Address Settings:**
- LAN IPv6 Link-Local Address:** fe80::8445:13ff:feac:9d65 /64

At the bottom of the configuration area are two buttons: **Apply** and **Refresh**.

# Static IPv6

**IPv6 Address:** Enter the static IPv6 address of the router.

**Subnet Prefix Length:** Enter the subnet prefix length.

**Default Gateway:** Enter the default gateway address.

**DNS Addresses:** Enter the primary and secondary DNS server addresses.

**LAN IPv6 Address:** Enter the LAN (local) IPv6 address for the router.

**LAN IPv6 Link-Local Address:** Displays the router's LAN link-local address.

**Enable Autoconfiguration:** Check to enable the autoconfiguration feature.

**Autoconfiguration Type:** Select **Stateful (DHCPv6)**, **SLAAC + RDNSS**, or **SLAAC + Stateless DHCPv6**.

**Router Advertisement Lifetime:** Enter the IPv6 address lifetime (in seconds).

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

The screenshot shows the D-Link web interface for IPv6 configuration. The navigation menu on the left includes WAN Service, Wizard, Failover, and IPv6. The main content area is titled 'IPv6' and contains the following sections:

- Choose the mode to be used by the router to connect to the IPv6 Internet.**
  - IPv6:  Enable  Disable
  - IPv6 Connection: Static IPv6
- WAN IPv6 Address Settings**
  - IPv6 Address: [ ]
  - Subnet Prefix Length: [ ]
  - Default Gateway: [ ]
  - Primary DNS Address: [ ]
  - Secondary DNS Address: [ ]
- LAN IPv6 Address Settings**
  - LAN IPv6 Address: [ ]
  - LAN IPv6 Link-Local Address: fe80::445:13ff:feac:9a51/64
- LAN Address Autoconfiguration Settings**
  - Enable Autoconfiguration:
  - Autoconfiguration Type: SLAAC+Stateless DHCPv6
  - Router Advertisement Lifetime: [ ] seconds

At the bottom of the page are two buttons: **Apply** and **Refresh**.

## Autoconfiguration (SLAAC/DHCPv6)

**DNS Setting:** Select either Obtain DNS server address automatically or Use the following DNS address.

**DNS Addresses:** Enter the primary and secondary DNS server addresses.

**Enable DHCP-PD:** Check to enable the DHCP-PD feature.

**LAN IPv6 Address:** Enter the LAN (local) IPv6 address for the router.

**LAN IPv6 Link-Local Address:** Displays the router's LAN link-local address.

**Enable Autoconfiguration:** Check to enable the autoconfiguration feature.

**Autoconfiguration Type:** **DHCPv6.**

**Autoconfiguration Type:** Select **Stateful (DHCPv6)**, **SLAAC + RDNSS**, or **SLAAC + Stateless DHCPv6**.

**Router Advertisement Lifetime:** Enter the IPv6 address lifetime (in seconds).

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

The screenshot shows the D-Link router's web interface for IPv6 configuration. The top navigation bar includes Home, Internet, Wi-Fi, LAN, Advanced, and System. The left sidebar lists WAN Service, Wizard, Failover, and IPv6. The main content area is titled 'IPv6' and contains the following sections:

- Choose the mode to be used by the router to connect to the IPv6 Internet.**
  - IPv6:  Disable  Enable
  - IPv6 Connection: Autoconfiguration (SLAAC/DHCPv6)
- IPv6 DNS Settings**
  - DNS Setting:  Obtain DNS Server address Automatically  Use the following DNS address
  - Primary DNS Address: [Empty text box]
  - Secondary DNS Address: [Empty text box]
- LAN IPv6 Address Settings**
  - Enable DHCP-PD:
  - LAN IPv6 Address: [Empty text box] /64
  - LAN IPv6 Link-Local Address: fe80::d445:13ff:feac:9a5
- LAN Address Autoconfiguration Settings**
  - Enable Autoconfiguration:
  - Autoconfiguration Type: SLAAC+Stateless DHCPv6
  - Router Advertisement Lifetime: [Empty text box] seconds

At the bottom of the form are 'Apply' and 'Refresh' buttons.

# PPPoE

**Username:** Enter your PPPoE user name.

**Password:** Enter your PPPoE password and then retype the password in the next box.

**Service Name:** Enter the ISP Service Name (optional).

**MTU:** Maximum Transmission Unit - you may need to change the MTU for optimal performance with your specific ISP.

**DNS Setting:** Select either Obtain DNS server address automatically or Use the following DNS address.

**DNS Addresses:** Enter the primary and secondary DNS server addresses.

**Enable DHCP-PD:** Check to enable the DHCP-PD feature.

**LAN IPv6 Address:** Enter the LAN (local) IPv6 address for the router.

**LAN IPv6 Link-Local Address:** Displays the router's LAN link-local address.

**Enable Autoconfiguration:** Check to enable the autoconfiguration feature.

**Autoconfiguration:**

Select **Stateful (DHCPv6)**, **SLAAC + RDNSS**, or **SLAAC + Stateless**  
**Type: DHCPv6.**

**Router Advertisement Lifetime:** Enter the IPv6 address lifetime (in seconds).

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

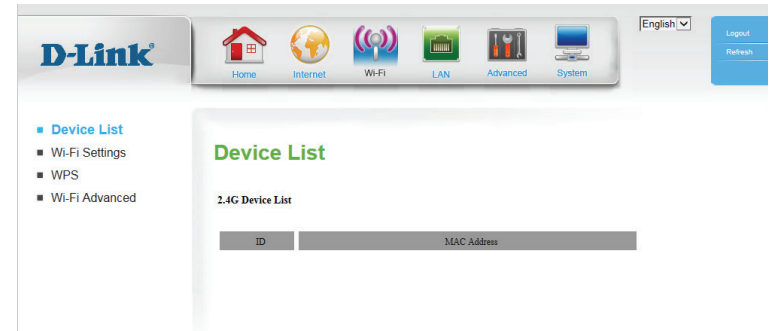
The screenshot shows the D-Link router's web interface for IPv6 configuration. The page is titled "IPv6" and has a sidebar with navigation options: WAN Service, Wizard, Failover, and IPv6. The main content area is divided into several sections:

- Choose the mode to be used by the router to connect to the IPv6 Internet.**
  - IPv6:  Disable  Enable
  - IPv6 Connection: PPPoE (dropdown menu)
- PPPoE Settings**
  - Username: [text input]
  - Password: [text input]
  - Service Name: [text input]
  - MTU: [text input]
- IPv6 DNS Settings**
  - DNS Setting:  Obtain DNS Server address Automatically  Use the following DNS address
  - Primary DNS Address: [text input]
  - Secondary DNS Address: [text input]
- LAN IPv6 Address Settings**
  - Enable DHCP-PD:
  - LAN IPv6 Address: [text input] /64
  - LAN IPv6 Link-Local Address: fe80::d445:13ff:feac:94d5
- LAN Address Autoconfiguration Settings**
  - Enable Autoconfiguration:
  - Autoconfiguration Type: SLAAC+Stateless DHCPv6 (dropdown menu)
  - Router Advertisement Lifetime: [text input] seconds

At the bottom of the page, there are two buttons: "Apply" and "Refresh".

# Wi-Fi Device List

This page displays a list of currently-connected wireless clients, and their respective MAC addresses.



# Wi-Fi Settings

This page lets you set up your wireless network and choose a wireless encryption mode. Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

**Enable Wireless:** Check this box to enable wireless access. When you enable this option, the following parameters take effect.

**Wireless Network Name:** Also known as the SSID (Service Set Identifier), this is the name of your Wireless Local Area Network (WLAN). Enter a name using up to 32 alphanumeric characters. The SSID is case-sensitive.

**802.11 Mode:** Select the IEEE 802.11 standard used by your wireless clients.

**Enable Auto Channel Scan:** Enabling this feature will allow the router to automatically scan for the best wireless channel to use.

**Wireless Channel:** If Auto Channel Scan is disabled, select the desired channel here.





**Channel Width:** A higher channel width allows for faster data transmission, at the possible expense of wireless coverage and compatibility with older wireless clients. Select the optimum channel width for your wireless network from the drop-down menu.

**Visibility Status:** The default setting is **Visible**. Select **Invisible** if you do not want to broadcast the SSID of your wireless network.

**Security Mode:** Select the desired wireless encryption mode. **WPA/WPA2** is recommended if your clients support it.

If you choose **WEP**, the following options will appear:

**WEP Key Length:** Select whether to use **64-bit** or **128-bit** encryption.

**Authentication:** Select whether to use **Open** or **Shared** authentication.

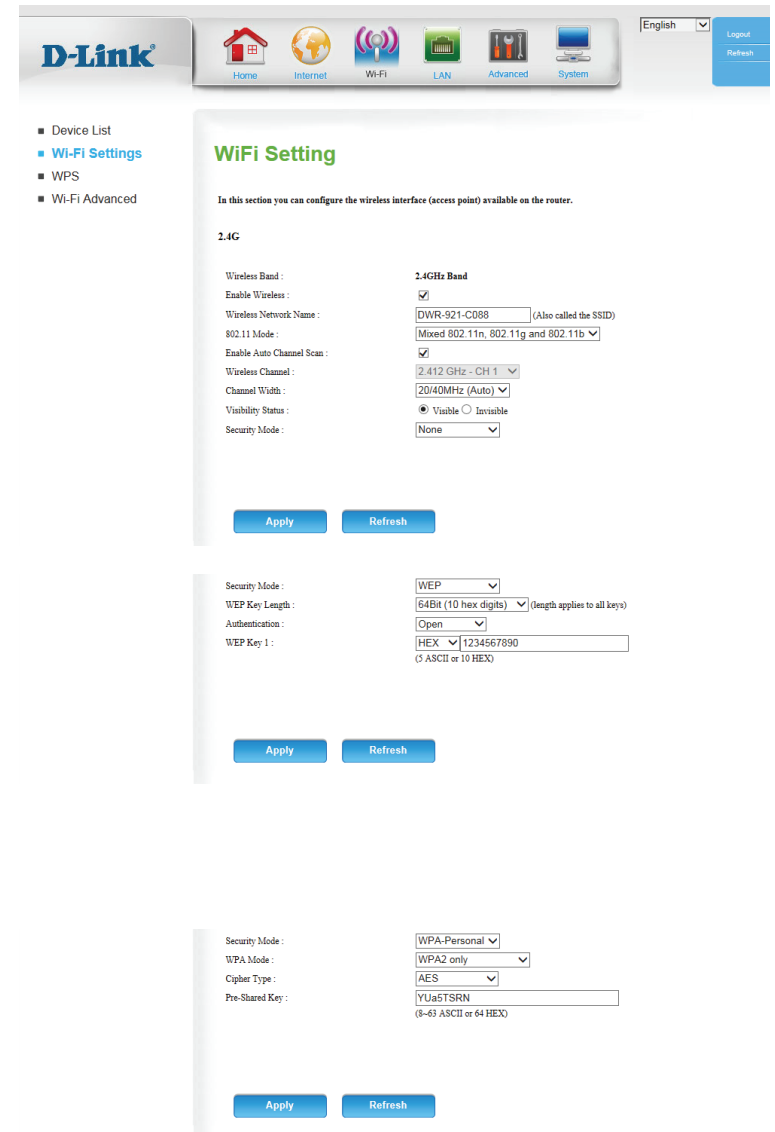
**WEP Key 1:** Set the WEP key/password for your wireless network. Based on whether you are using 64 or 128-bit encryption, and whether you are using a HEX or ASCII key, you will need to enter different numbers of characters for your key, as indicated below the WEP Key text box. ASCII keys may use letters and numbers only, and HEX keys may use numbers 0-9 and letters A-F only.

If you choose **WPA-Personal**, the following options will appear:

**WPA Mode:** Select whether to use **WPA2 only** or **Auto (WPA or WPA2)**. **WPA2 only** is the strongest, provided that all of your clients can support it.

**Cipher Type:** Select whether to use the **TKIP** or **AES** cipher. The **AES** cipher is the strongest, provided that all of your clients can support it.

**Pre-Shared Key:** Enter the key/password you want to use for your wireless network. The key must be between 8 and 63 characters long, and may only contain letters and numbers.



# WPS

The Wi-Fi Protected Setup page allows you to create a wireless connection between your router and a device automatically by simply pushing a button or entering a PIN code.

**WPS:** Select whether you would like to **Enable** or **Disable** WPS features.

**AP PIN:** If you use Windows 7's **Connect to a network** wizard to do initial configuration of the router, you will need to enter the WPS PIN/AP PIN into the wizard when prompted. The factory default WPS PIN/AP PIN is printed on a label located on the bottom of the router. You can click the **Generate New PIN** button to change it to a randomly generated PIN.

**Config Mode:** Select whether the WPS config mode should be set to **Registrar** or **Enrollee**. In most cases, this should be set to **Registrar** so that you can use WPS to connect new wireless clients.

**Config Status:** If this is set to **CONFIGURED**, the router will be marked as "already configured" to computers that try to use WPS configuration, such as Windows 7's **Connect to a network** wizard. You can click the **Release** button to change the status to **UNCONFIGURED** to allow for WPS configuration of the router.

If this is set to **UNCONFIGURED**, you can click the **Set** button to change the status to **CONFIGURED** to block WPS configuration of the router.

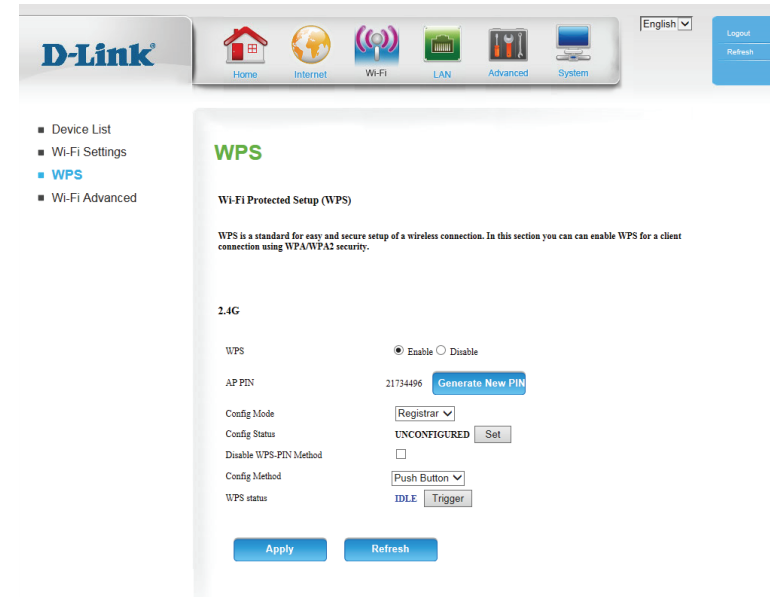
**Disable WPS-PIN Method:** Enable this option to prevent clients from connecting to the router using the PIN method. If this option is enabled, clients must use the push-button method to connect.

The screenshot shows the D-Link WPS configuration interface. At the top, there's a navigation bar with icons for Home, Internet, Wi-Fi, LAN, Advanced, and System. The main content area is titled 'WPS' and 'Wi-Fi Protected Setup (WPS)'. Below this, there's a description of WPS and a section for '2.4G' settings. The 'WPS' section has radio buttons for 'Enable' (selected) and 'Disable'. The 'AP PIN' is 21734496, with a 'Generate New PIN' button. The 'Config Mode' is set to 'Registrar'. The 'Config Status' is 'UNCONFIGURED', with a 'Set' button. The 'Disable WPS-PIN Method' checkbox is unchecked. The 'Config Method' is set to 'Push Button'. The 'WPS status' is 'IDLE', with a 'Trigger' button. At the bottom, there are 'Apply' and 'Refresh' buttons.

**Config Method:** This lets you choose whether to use the **Push Button** connection method (PBC) or **PIN** method to connect to a wireless client when the **Trigger** button is clicked. If you choose the **PIN** method, you will need to enter an 8-digit PIN number that the wireless client needs to use to connect to your router.

**WPS status:** This will show the current WPS connection process status. Click the **Trigger** button to initiate a WPS connection.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.



# Wi-Fi Advanced

This page contains settings which can negatively affect the performance of your router if configured improperly. Do not change these settings unless you are already familiar with them or have been instructed to make the change by one of our support personnel.

**Beacon Interval:** Specify a value for the beacon interval. Beacons are packets sent by an access point to synchronize a wireless network. 100 is the default setting and is recommended.

**Transmit Power:** Set the transmit power of the antennas.

**RTS Threshold:** This value should remain at its default setting of 2347. If inconsistent data flow is a problem, only a minor modification should be made.

**Fragmentation:** The fragmentation threshold, which is specified in bytes, determines whether packets will be fragmented. Packets exceeding the 2346 byte setting will be fragmented before transmission. 2346 is the default setting.

**DTIM Interval:** Set the interval for DTIM. A Delivery Traffic Indication Message (DTIM) is a countdown informing clients of the next window for listening to broadcast and multicast messages. The default interval is 1.

**WMM Capable:** WMM (Wi-Fi Multimedia) is a QoS (Quality of Service) system for your wireless network. Enable this option to improve the quality of video and voice applications for your wireless clients.

**TX Rates:** Select the basic transfer rates based on the speed of wireless adapters on your wireless network. It is strongly recommended to keep this setting to **Best**.

The screenshot shows the D-Link router's web interface. The top navigation bar includes icons for Home, Internet, Wi-Fi, LAN, Advanced, and System. The left sidebar lists navigation options: Device List, Wi-Fi Settings, WPS, and Wi-Fi Advanced (which is selected). The main content area is titled "Advanced Wireless Settings" and contains the following configuration options:

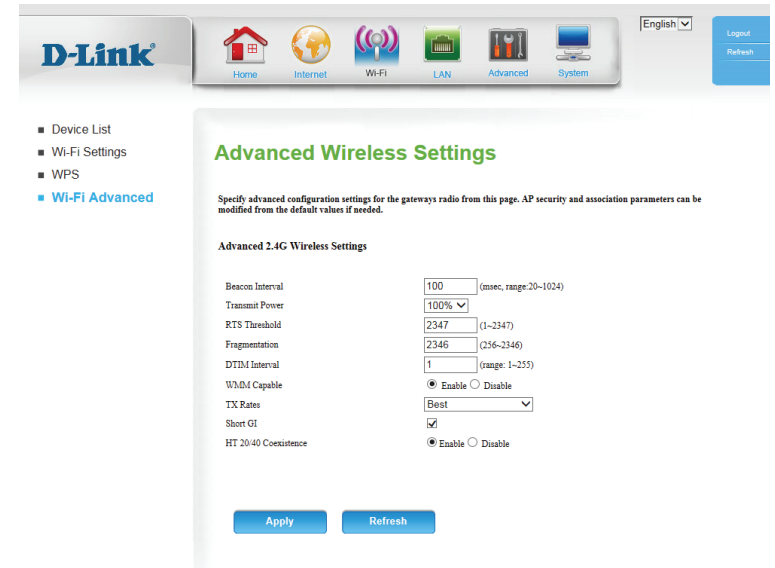
- Beacon Interval: 100 (msec, range: 20-1024)
- Transmit Power: 100%
- RTS Threshold: 2347 (range: 1-2347)
- Fragmentation: 2346 (range: 256-2346)
- DTIM Interval: 1 (range: 1-255)
- WMM Capable:  Enable  Disable
- TX Rates: Best
- Short GI:
- HT 20/40 Coexistence:  Enable  Disable

At the bottom of the settings area, there are "Apply" and "Refresh" buttons.

**Short GI:** Check this box to reduce the guard interval to 400 ns. This can increase the throughput rate provided that the delay spread of the connection is also low. However, it can also increase error rate in some installations, due to increased sensitivity to radio-frequency reflections. Select the option that works best for your installation.

**HT 20/40 Coexistence:** Enable this option to reduce interference from other wireless networks in your area. If the channel width is operating at 40 MHz and there is another wireless network's channel over-lapping and causing interference, the router will automatically change to 20 MHz.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

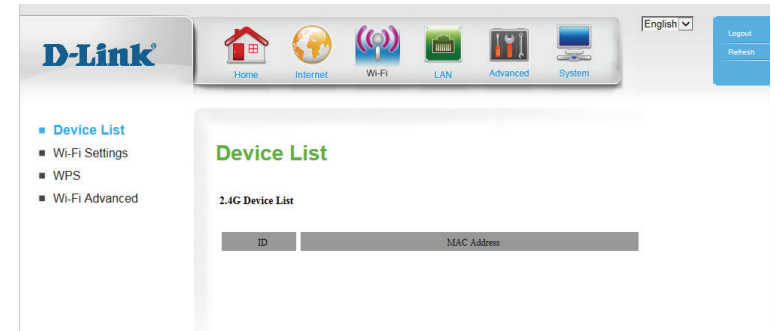


# LAN

This section will help you to change the local network settings of your router and to configure the DHCP Server settings.

## Device List

This page displays a list of currently-connected wireless clients, and their respective MAC addresses.



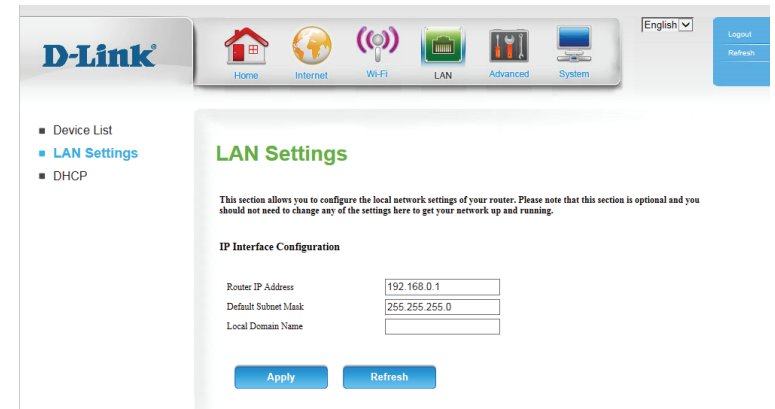
## LAN Settings

**Router IP Address:** Enter the IP address you want to use for the router. The default IP address is **192.168.0.1**. If you change the IP address, you will need to enter the new IP address in your browser to get into the configuration utility.

**Default Subnet Mask:** Enter the subnet mask of the router. The default subnet mask is **255.255.255.0**.

**Local Domain Name:** Enter the local domain name for your network.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.



# DHCP

The DWR-921 has a built-in DHCP (Dynamic Host Control Protocol) server. The DHCP server assigns IP addresses to devices on the network that request them. By default, the DHCP Server is enabled on the device. The DHCP address pool contains a range of IP addresses, which are automatically assigned to the clients on the network.

**Enable DHCP Server:** Select this box to enable the DHCP server on your router.

**DHCP IP Address Range:** Enter the range of IPs for the DHCP server to use to assign IP addresses to devices on your network. These values will represent the last octet of the IP addresses in the pool.

**DHCP Lease Time:** Enter the lease time for IP address assignments.

**Primary DNS IP Address:** Enter the primary DNS IP address that will be assigned to DHCP clients.

**Secondary DNS IP Address:** Enter the secondary DNS IP address that will be assigned to DHCP clients.

**Fixed Mapping:** Click **Fixed Mapping** to assign a dedicated IP to a specified MAC address to be saved by the DHCP server. The Fixed Mapping page will appear.

Select a DHCP client and click **Copy to**, or enter the MAC address and IP address manually, to assign the IP address to the MAC address. Click **Enable** to enable the rule.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

**D-Link** Home Internet Wi-Fi LAN Advanced System English Logout Refresh

- Device List
- LAN Settings
- DHCP**

### DHCP

**DHCP Server Configuration**

Enable DHCP Server:

DHCP IP Address Range: 60 to 199 (addresses within the LAN subnet)

DHCP Lease Time: 96400 (seconds)

Primary DNS IP Address:

Secondary DNS IP Address:

**Fixed Mapping**

**Apply** **Refresh**

**D-Link** Home Internet Wi-Fi LAN Advanced System English Logout Refresh

- Device List
- LAN Settings
- DHCP**

### Fixed Mapping

DHCP clients: -- Select one -- **Copy to** ID: -- --

ID	MAC Address	IP Address	Enable
1	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
3	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
4	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
5	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
6	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
7	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
8	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
9	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
10	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

**Previous page** **Next page** **Back**

**Apply** **Refresh**

# Advanced DNS

On this page you can configure the Domain Name System (DNS) server, which manages the resolution of host/domain names to IP addresses.

**DDNS:** Tick this checkbox to enable the DDNS feature.

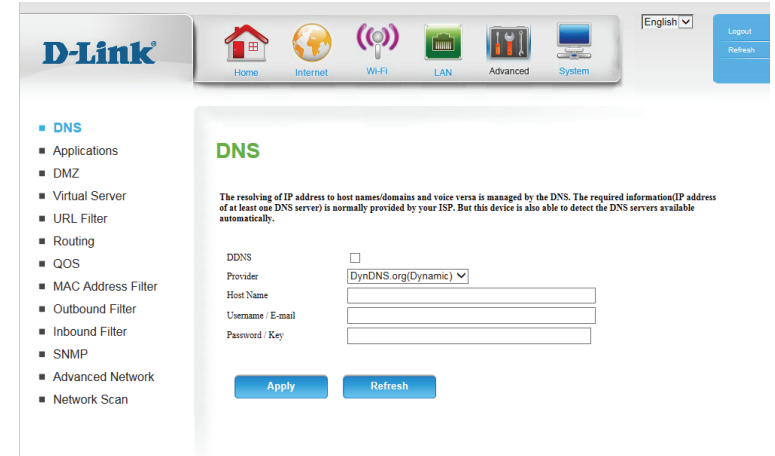
**Provider:** Select a DDNS service provider to use.

**Host Name:** Enter the **Host Name** that you registered with your DDNS service provider.

**Username / E-mail:** Enter the **Username** for your DDNS account.

**Password / Key:** Enter the **Password** for your DDNS account.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.



The screenshot shows the D-Link web interface for configuring DNS. The top navigation bar includes icons for Home, Internet, Wi-Fi, LAN, Advanced, and System, along with a language dropdown set to English and Login/Refresh buttons. A left sidebar lists various configuration options, with 'DNS' selected. The main content area is titled 'DNS' and contains a checkbox for 'DDNS', a dropdown menu for 'Provider' (set to 'DynDNS.org(Dynamic)'), and three input fields for 'Host Name', 'Username / E-mail', and 'Password / Key'. 'Apply' and 'Refresh' buttons are located at the bottom of the form.



# Applications

Some applications require multiple connections, such as Internet gaming, video conferencing, and Internet telephony. These applications may have difficulty working through NAT (Network Address Translation). **Applications** allows some of these applications to work with the DWR-921 by opening ports after detecting traffic being sent through a trigger port.

**Popular Applications:** Select from a list of popular applications. You can select a service, select a rule ID, then click the **Copy to** button to copy the default settings for that service to the specified rule ID.

**ID:** Specifies which rule to copy the selected **Popular applications** settings to when you click the **Copy to** button.

## APPLICATION RULES

**ID:** This identifies the rule.

**Trigger:** Enter the port to listen to in order to trigger the rule.

**Incoming Ports:** Specify the incoming port(s) to open when traffic comes over the **Trigger** port.

**Enable:** Check the box to enable the specified rule.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

The screenshot shows the D-Link web interface for configuring Applications. The top navigation bar includes icons for Home, Internet, Wi-Fi, LAN, Advanced, and System. The left sidebar lists various configuration options, with 'Applications' selected. The main content area is titled 'Applications' and features a 'Popular applications' dropdown menu, a 'Copy to' button, and an 'ID' dropdown menu. Below this is a table with columns for ID, Trigger, Incoming Ports, and Enable. The table has 12 rows, each with input fields for Trigger and Incoming Ports, and a checkbox for Enable. At the bottom of the table are 'Apply' and 'Refresh' buttons.

ID	Trigger	Incoming Ports	Enable
1	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
3	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
4	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
5	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
6	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
7	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
8	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
9	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
10	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
11	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
12	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

# DMZ

Sometimes you may want a computer exposed to the outside world for certain types of applications. If you choose to expose a computer, you can enable Demilitarized Zone (DMZ). This option will expose the chosen computer completely to the outside world.

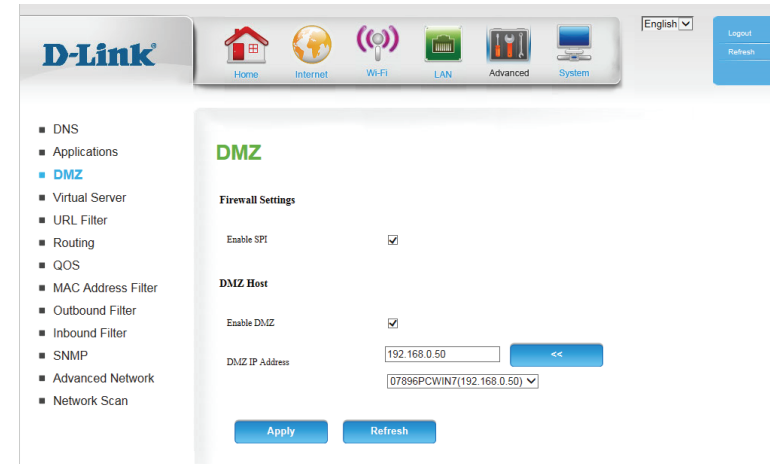
**Enable SPI:** Enabling Stateful Packet Inspection (SPI) helps to prevent cyber attacks by validating that the traffic passing through the session conforms to the protocol.

**Enable DMZ:** If an application has trouble working from behind the router, you can expose one computer to the Internet and run the application on that computer.

**Note:** Placing 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.

**DMZ IP Address:** Specify the IP address of the computer on the LAN that you want to have unrestricted Internet communication. If this computer obtains its IP address automatically using DHCP, be sure to make a static reservation on the Setup > Network Settings page so that the IP address of the DMZ machine does not change.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.



# Virtual Server

The device can be configured as a virtual server so that users can access services such as Web or FTP via the public (WAN) IP address of the router. You can also allow the settings to run on a specified schedule.

**Well-known Services:** This contains a list of pre-defined services. You can select a service, select a rule ID, then click the **Copy to** button to copy the default settings for that service to the specified rule ID.

**ID:** Specifies which rule to copy the selected **Well known service** settings to when you click the **Copy to** button.

**Use schedule rule:** Select a schedule to use and copy to the specified rule ID when you click the **Copy to** button. You may select **Always On** or use a specific schedule that you have defined. To create and edit schedules, please refer to **Schedules** on page 57.

## VIRTUAL SERVERS LIST

**ID:** This identifies the rule.

**Service Ports** Enter the public port(s) you want to open.

**Server IP: Port:** Enter the IP address and port of the computer on your local network that you want to forward the Service Ports to.

**Enable:** Check the box to enable the specified rule.

**Schedule Rule #:** Specify the schedule rule number. To create schedules, click on the **Add New Rule** button. For further information on schedules, please refer to **Schedules** on page 57.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

**D-Link** Home Internet Wi-Fi LAN Advanced System English Logout Refresh

- DNS
- Applications
- DMZ
- **Virtual Server**
- URL Filter
- Routing
- QOS
- MAC Address Filter
- Outbound Filter
- Inbound Filter
- SNMP
- Advanced Network
- Network Scan

### Virtual Server

The Externally acts as server. It receives the requests of remote users under its public IP address and forwards them automatically to the Virtual Server. So a client in your network behind NAT or firewall can provide services as a Virtual Server. You just have to enable specific ports or port ranges and protocols (UDP/TCP). File sharing or web services for e.g. HTTP, FTP or POP3 are possible. The private IP addresses of the servers in the local network remain safe. If you have a dynamic IP address, you may want to enable DynDNS additionally.

Well known services: --Select one-- **Copy to** ID: -- --  
 Use schedule rule: --ALWAYS ON--

ID	Service Ports	Server IP: Port	Enable	Schedule Rule#
1	<input type="text"/>	<input type="text"/> : <input type="text"/>	<input type="checkbox"/>	<input type="text"/> <b>Add New Rule...</b>
2	<input type="text"/>	<input type="text"/> : <input type="text"/>	<input type="checkbox"/>	<input type="text"/> <b>Add New Rule...</b>

# URL Filter

**URL Filter** allows you to set up a list of websites that will be blocked from users on your network.

**URL Filtering:** Check the box to enable URL Filtering.

## URL FILTERING RULES

**ID:** This identifies the rule.

**URL:** Enter URL that you would like to block. All URLs that begin with this URL will be blocked.

**Enable:** Check the box to enable the specified rule.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

The screenshot shows the D-Link web interface for configuring the URL Filter. The navigation menu on the left includes: DNS, Applications, DMZ, Virtual Server, **URL Filter** (highlighted), Routing, QOS, MAC Address Filter, Outbound Filter, Inbound Filter, SNMP, Advanced Network, and Network Scan. The main content area is titled 'URL Filter' and contains the following sections:

- URL Filtering Setting:** A checkbox labeled 'URL Filtering' is checked and labeled 'Enable'.
- URL Filtering Rules:** A table with 5 rows and 3 columns: ID, URL, and Enable.

ID	URL	Enable
1	www.example.com	<input checked="" type="checkbox"/>
2		<input type="checkbox"/>
3		<input type="checkbox"/>
4		<input type="checkbox"/>
5		<input type="checkbox"/>

At the bottom of the table are two buttons: 'Apply' and 'Refresh'.

# Routing

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

**RIP:** Check the box to enable routing, then select which routing protocol to use:

- **RIPv1:** Protocol in which the IP address is routed through the Internet.
- **RIPv2:** Enhanced version of RIPv1 with added features such as authentication, routing domain, next hop forwarding, and subnet-mask exchange.

## ROUTING RULES

**ID:** This identifies the rule.

**Destination:** Enter in the IP of the specified network that you want to access using the static route.

**Subnet Mask:** Enter in the subnet mask to be used for the specified network.

**Gateway:** Enter in the gateway IP address for the specified network.

**Hop:** Enter in the amount of hops it will take to reach the specified network.

**Note:** In a transmission path, each link is terminated at a network device such as a router or gateway. The number of hops equals the number of routers or gateways that data must pass through before reaching the destination.

**Enable:** Select this box to enable the rule.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

The screenshot shows the D-Link web interface for the Routing configuration page. The page title is "Routing" and it includes a sub-header: "The routes for the traffic in your network are defined in the routing table. Normally, the entries for IP Address and Gateway are sufficient. You do not need to define any settings."

**RIP Setting**

RIP:  Enable  RIPv1  RIPv2

**Routing Rules**

ID	Destination	Subnet Mask	Gateway	Hop	Enable
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
5	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
6	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
7	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
8	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

Buttons: **Apply** **Refresh**

# QoS

The **QoS Engine** improves your online gaming or streaming media experience by ensuring that your game or media traffic is prioritized over other network traffic, such as FTP or web. For best performance, use the Automatic Classification option to automatically set the priority for your applications.

**Enable QoS Packet Filter:** Select this box to enable the QoS feature.

**Upstream Bandwidth:** Specify the maximum upstream bandwidth here (e.g. 400 Kbps).

**Use Schedule Rule:** Select a schedule to use and copy to the specified rule ID when you click the **Copy to** button. You may select **Always On** or use a specific schedule that you have defined. To create and edit schedules, please refer to **Schedules** on page 57.

## QOS RULES

**ID:** This identifies the rule.

**Local IP : Ports:** Specify the local IP address(es) and port(s) for the rule to affect.

**Remote IP : Ports:** Specify the remote IP address(es) and port(s) for the rule to affect.

**QoS Priority:** Select what priority level to use for traffic affected by the rule: **Low, Normal, or High.**

**Enable:** Check the box to enable the specified rule.

**Use Rule #:** Specify the schedule rule number. To create a new schedule, click on the **Add New Rule** button. For more information about schedules, please refer to **Schedules** on page 57.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

The screenshot displays the D-Link web interface for QoS configuration. At the top, there's a navigation bar with icons for Home, Internet, Wi-Fi, LAN, Advanced, and System. The main content area is titled 'QoS' and includes a 'QoS Engine Setup' section. In this section, the 'Enable QoS Packet Filter' checkbox is checked, and the 'Upstream bandwidth' is set to 400 kbps. A 'Use schedule rule' dropdown is set to 'ALWAYS ON', and a 'Copy to' button is visible. Below the setup section is a table of 'QoS Rules' with 8 rows. Each row has columns for ID, Local IP: Ports, Remote IP: Ports, QoS Priority (all set to High), an Enable checkbox (all unchecked), and a 'Use Rule#' dropdown with an 'Add New Rule...' button. At the bottom of the table are 'Apply' and 'Refresh' buttons.

# MAC Address Filter

The **MAC (Media Access Controller) Address Filter** option is used to control network access based on the MAC address of the network adapter. A MAC address is a unique ID assigned by the manufacturer of the network adapter. This feature can be configured to ALLOW or DENY network/Internet access.

**MAC Address Control:** Tick this box to enable MAC Filtering.

**Connection Control:** Check the box to allow wireless and wired clients with **C** selected to connect to this device. You can also select to **allow** or **deny** connections from unspecified MAC addresses.

**Association Control:** Check the box to allow wireless clients with **A** selected can associate to the wireless LAN. You can also select to **allow** or **deny** connections from unspecified MAC addresses.

## MAC FILTERING RULES

**ID:** This identifies the rule.

**MAC Address:** Specify the MAC address of the computer to be filtered.

**IP Address:** Specify the last section of the IP address.

**C:** If this box is ticked, the rule will follow the connection control setting specified in MAC filtering settings specified above.

**A:** If this box is ticked, the rule will follow the association control setting specified in MAC filtering settings specified above.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

The screenshot shows the D-Link web interface for configuring the MAC Address Filter. The navigation menu on the left includes: DNS, Applications, DMZ, Virtual Server, URL Filter, Routing, QOS, **MAC Address Filter** (selected), Outbound Filter, Inbound Filter, SNMP, Advanced Network, and Network Scan. The main content area is titled 'MAC Address Filter' and contains the following settings:

- MAC Filtering Settings:**
  - MAC Address Control:  Enable
  - Connection control:  Wireless and wired clients with C checked can connect to this device, and [allow] unspecified MAC addresses to connect.
  - Association control:  Wireless clients with A checked can associate to the wireless LAN, and [allow] unspecified MAC addresses to associate.
- DHCP clients: [-- Select one --] [Copy to] ID [--]

Below the settings is a table for 'MAC Filtering Rules':

ID	MAC Address	C	A
1	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>

At the bottom of the page are buttons for 'Previous page', 'Next page', 'Apply', and 'Refresh'.

# Outbound Filter

**Outbound Filter** enables you to control what packets are allowed to be sent out to the Internet. The outbound filter applies to all outbound packets.

**Outbound Filter:** Select this box to **Enable** outbound filtering.

**Use Schedule Rule:** Select a schedule to use and copy to the specified rule ID when you click the **Copy to** button. You may select **Always On** or use a specific schedule that you have defined. To create and edit schedules, please refer to **Schedules** on page 57.

## OUTBOUND FILTER RULES LIST

Here, you can select whether to **Allow** or **Deny** all outgoing traffic except for traffic that matches the listed rules.

**ID:** This identifies the rule.

**Source IP : Ports:** Specify the local IP address and then specify the port after the colon.

**Destination IP :**

**Ports:** Specify the remote IP address and then the port after the colon.

**Enable:** Check the box to enable the specified rule.

**Schedule Rule #:** Specify the schedule rule number. Click on the **Add New Rule** button to create a new schedule rule.

**Previous Page:** Go back to the previous filter page.

**Next Page:** Advance to the next filter page.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

The screenshot shows the D-Link web interface for configuring the Outbound Filter. The page is titled "Outbound Filter" and is part of the "Advanced" settings section. The "Outbound Filter Setting" section includes a checkbox for "Enable" (checked), a "Use schedule rule" dropdown menu (set to "ALWAYS ON"), and a "Copy to" button. Below this is the "Outbound Filter Rules List" section, which has two radio button options: "Allow all to pass except those match the following rules." (selected) and "Deny all to pass except those match the following rules." The table below lists 8 rules, each with an ID, Source IP:Ports, Destination IP:Ports, Enable checkbox, and Schedule Rule dropdown. Each row has an "Add New Rule..." button. At the bottom of the page, there are "Previous page", "Next page", "Apply", and "Refresh" buttons.

ID	Source IP:Ports	Destination IP:Ports	Enable	Schedule Rule
1			<input type="checkbox"/>	<input type="text"/>
2			<input type="checkbox"/>	<input type="text"/>
3			<input type="checkbox"/>	<input type="text"/>
4			<input type="checkbox"/>	<input type="text"/>
5			<input type="checkbox"/>	<input type="text"/>
6			<input type="checkbox"/>	<input type="text"/>
7			<input type="checkbox"/>	<input type="text"/>
8			<input type="checkbox"/>	<input type="text"/>



# Inbound Filter

**Inbound Filter** enables you to control what packets are allowed to come in to your network from the Internet. The inbound filter only applies to packets that are destined for Virtual Servers or DMZ hosts.

**Inbound Filter:** Select this box to **Enable** the filter.

**Use Schedule Rule:** Select a schedule to use and copy to the specified rule ID when you click the **Copy to** button. You may select **Always On** or use a specific schedule that you have defined. To create and edit schedules, please refer to **Schedules** on page 57.

## INBOUND FILTER RULES LIST

Here, you can select whether to **Allow** or **Deny** all incoming traffic except for traffic that matches the listed rules.

**ID:** This identifies the rule.

**Source IP : Ports:** Specify the local IP address and then specify the port after the colon.

**Destination IP : Ports:** Specify the remote IP address and then the port after the colon.

**Enable:** Check the box to enable the specified rule.

**Schedule Rule #:** Specify the schedule rule number. Click on the **Add New Rule** button to create a new schedule rule.

**Previous Page:** Go back to the previous filter page.

**Next Page:** Advance to the next filter page.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

**D-Link** Home Internet Wi-Fi LAN Advanced System English Logout Refresh

- DNS
- Applications
- DMZ
- Virtual Server
- URL Filter
- Routing
- QOS
- MAC Address Filter
- Outbound Filter
- **Inbound Filter**
- SNMP
- Advanced Network
- Network Scan

### Inbound Filter

**Inbound Filter Setting**

Inbound Filter  Enable

Use schedule rule: [ALWAYS ON...] **Copy to** ID [ ]

**Inbound Filter Rules List**

Allow all to pass except those match the following rules.  
 Deny all to pass except those match the following rules.

ID	Source IP Ports	Destination IP Ports	Enable	Schedule Rule#
1	[ ] : [ ]	[ ] : [ ]	<input type="checkbox"/>	[ ] <b>Add New Rule...</b>
2	[ ] : [ ]	[ ] : [ ]	<input type="checkbox"/>	[ ] <b>Add New Rule...</b>
3	[ ] : [ ]	[ ] : [ ]	<input type="checkbox"/>	[ ] <b>Add New Rule...</b>
4	[ ] : [ ]	[ ] : [ ]	<input type="checkbox"/>	[ ] <b>Add New Rule...</b>
5	[ ] : [ ]	[ ] : [ ]	<input type="checkbox"/>	[ ] <b>Add New Rule...</b>
6	[ ] : [ ]	[ ] : [ ]	<input type="checkbox"/>	[ ] <b>Add New Rule...</b>
7	[ ] : [ ]	[ ] : [ ]	<input type="checkbox"/>	[ ] <b>Add New Rule...</b>
8	[ ] : [ ]	[ ] : [ ]	<input type="checkbox"/>	[ ] <b>Add New Rule...</b>

Previous page Next page

Apply Refresh

# SNMP

**SNMP** (Simple Network Management Protocol) is a widely used network monitoring and control protocol that reports activity on each network device to the administrator of the network. SNMP can be used to monitor traffic and statistics of the DWR-921. The DWR-921 supports SNMP v1 and v2c.

**SNMP Local:** Select whether to **Enable** or **Disable** local SNMP administration.

**SNMP Remote:** Select whether to **Enable** or **Disable** remote SNMP administration.

**Get Community:** Enter the password **public** in this field to allow read-only access to network administration using SNMP. You can view the network, but no configuration is possible with this setting.

**Set Community:** Enter the password **private** in this field to enable read/write access to the network using SNMP.

**IP 1/IP 2/IP 3/IP 4:** Enter up to 4 IP addresses to use as trap targets for your network.

**SNMP Version:** Select the SNMP version of your system.

**WAN Access IP Address** If you want to limit remote access SNMP access, enter the IP address of the remote computer you will use to access this device; all other IP addresses will be denied remote SNMP access.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

The screenshot shows the D-Link web interface for the DWR-921. The top navigation bar includes icons for Home, Internet, Wi-Fi, LAN, Advanced, and System. The left sidebar contains a menu with items like DNS, Applications, DMZ, Virtual Server, URL Filter, Routing, QOS, MAC Address Filter, Outbound Filter, Inbound Filter, **SNMP**, Advanced Network, and Network Scan. The main content area is titled 'SNMP' and contains the following settings:

- SNMP Local:  Enable  Disable
- SNMP Remote:  Enable  Disable
- Get Community:
- Set Community:
- IP 1:
- IP 2:
- IP 3:
- IP 4:
- SNMP Version:  V1  V2c
- WAN Access IP Address:

At the bottom of the form are two buttons: 'Apply' and 'Refresh'.

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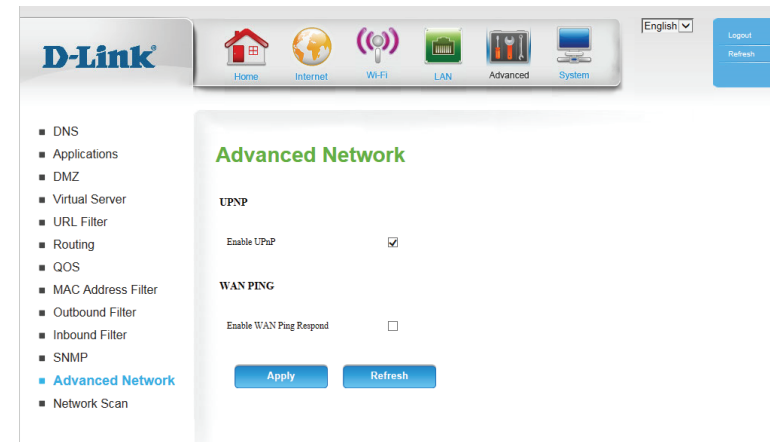
# Advanced Network

**Advanced Network** contains settings which can change the way the router handles certain types of traffic. We recommend that you do not change any of these settings unless you are already familiar with them or have been instructed to make the change by one of our support personnel.

**Enable UPnP:** Check the box to enable the Universal Plug and Play (UPnP™) feature. UPNP provides compatibility with various networking equipment, software, and peripherals.

**Enable WAN Ping Respond:** Select the box to allow the WAN port to be “pinged.” Blocking WAN pings may impeded certain types of attacks over the Internet.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.



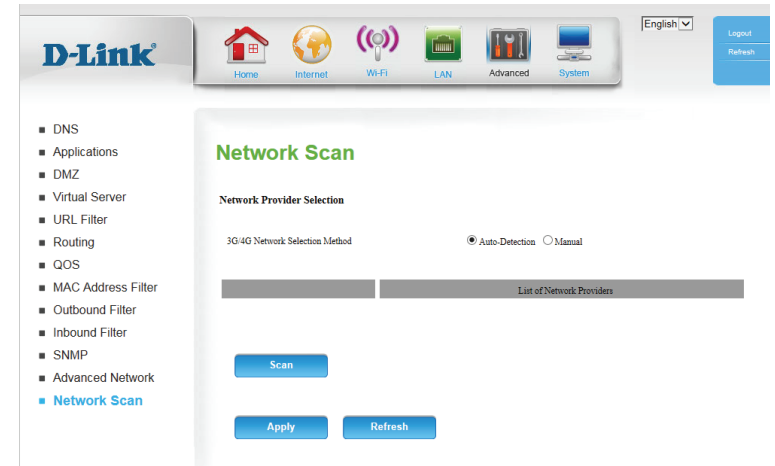
# Network Scan

This page lets you set whether to allow the DWR-921 to automatically select a 3G/4G network based on the inserted SIM card, and allows you to manually scan for networks and select one to connect to.

**3G/4G Network Selection Method:** Leave this setting on **Auto** to allow the DWR-921 to automatically select a cellular network to connect to. If you need to select a network manually, select **Manual**, click the **Scan** button, then select an available network to connect to.

**Note:** You will only be able to scan for networks if the DWR-921 is not currently connected to a 3G/4G network.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.



# System Time Settings

This section will help you set the time zone that you are in and an NTP (Network Time Protocol) server to use. Daylight Saving can also be configured to adjust the time when needed.

**Time Zone:** Select the appropriate **Time Zone** from the drop-down box.

**Enable Daylight Saving:** Check the box to allow for daylight saving adjustments. Use the drop-down boxes to specify a start date and end date for daylight saving time adjustments.

**Automatically synchronize with Internet time server:** Check the box to allow the router to use an NTP server to update the router's internal clock.

**NTP Server Used:** Enter an NTP server to use for time synchronization, or use the drop-down box to select one. Click the **Update Now** button to synchronize the time with the NTP server.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

The screenshot shows the D-Link router's web interface. The top navigation bar includes Home, Internet, Wi-Fi, LAN, Advanced, and System. The left sidebar lists various settings, with 'Time Settings' highlighted. The main content area is titled 'Time Settings' and contains the following configuration options:

- Time:** Mon Mar 02, 2015 04:51:51
- Time Zone:** (GMT-08:00) Pacific Time (US & Canada)
- Enable Daylight Saving:**
- Start:** 01 Jan (Hour/Day/Month)
- End:** 23 Dec (Hour/Day/Month)
- Sync. your computer's time settings:**
- Automatically synchronize with Internet time server:**
- NTP Server Used:** time.nist.gov

At the bottom of the form, there is an 'Update Now' button. Below the form, the text 'Sync. RESULT' is displayed, followed by 'Apply' and 'Refresh' buttons.

# Administration

The **Admin** page allows you to change the Administrator password and enable Remote Management. The admin has read/write access while users only have read-only access. Only the admin has the ability to change both admin and user account passwords.

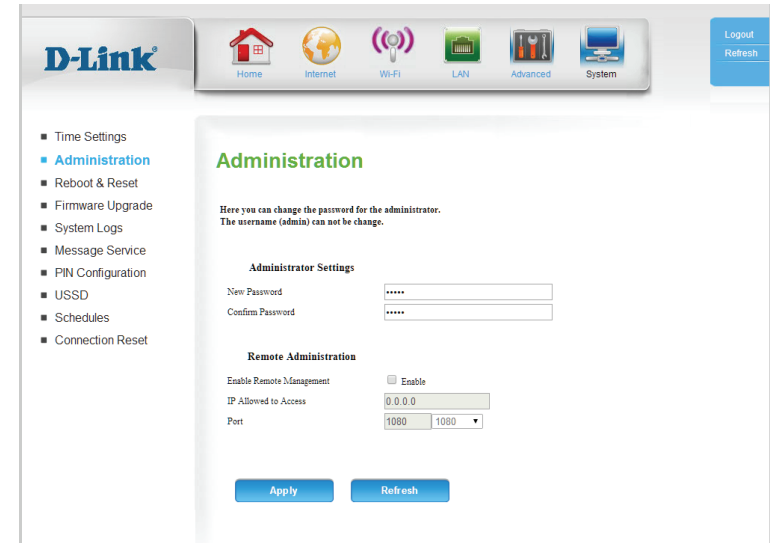
**Admin Password:** Enter and confirm the password that the admin account will use to access the router's management interface.

**Remote Management:** Tick this check box to enable remote management. Remote management allows the DWR-921 to be configured over the Internet through a web browser. A username and password will still be required to access the web-management interface.

**IP Allowed to Access:** Enter the Internet IP address of the PC that has access to the broadband router. If you enter an asterisk (\*) in this field, then anyone will be able to access the router. Adding an asterisk (\*) into this field could present a security risk and is not recommended.

**Port:** This is the port number used to access the router. 8080 is the port usually used for the web-management interface.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.



The screenshot displays the D-Link web management interface. At the top, there is a navigation bar with the D-Link logo and several menu items: Home, Internet, Wi-Fi, LAN, Advanced, and System. On the right side of the navigation bar, there are buttons for 'Logout' and 'Refresh'. Below the navigation bar, a sidebar menu lists various configuration options: Time Settings, Administration (highlighted in blue), Reboot & Reset, Firmware Upgrade, System Logs, Message Service, PIN Configuration, USSD, Schedules, and Connection Reset. The main content area is titled 'Administration' and contains the following text: 'Here you can change the password for the administrator. The username (admin) can not be change.' Below this text, there are two sections: 'Administrator Settings' and 'Remote Administration'. The 'Administrator Settings' section includes two password input fields: 'New Password' and 'Confirm Password', both with masked characters (dots). The 'Remote Administration' section includes a checkbox for 'Enable Remote Management' (which is currently unchecked), an 'IP Allowed to Access' input field with the value '0.0.0.0', and a 'Port' dropdown menu with the value '1080' selected. At the bottom of the form, there are two buttons: 'Apply' and 'Refresh'.

# Reboot & Reset

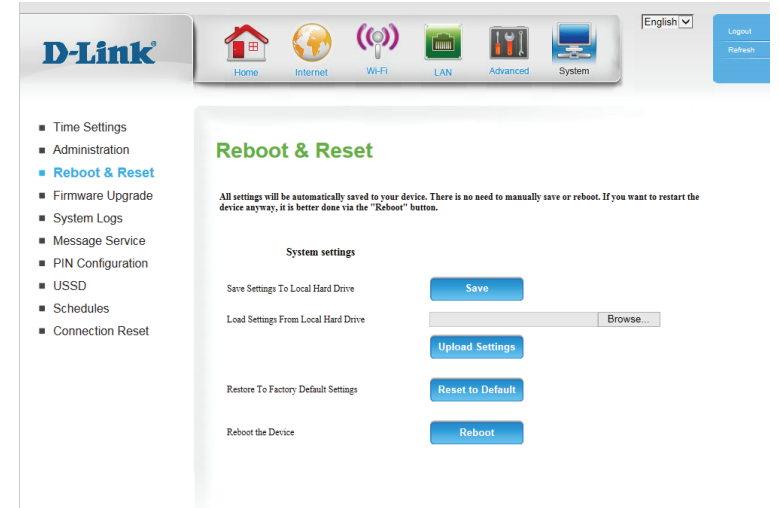
Here, you can save the current system settings to a local hard drive.

**Save Settings To Local Hard Drive** Use this option to save your current router configuration settings to a file. Click **Save** to open a file dialog, and then select a location and file name for the settings.

**Load Settings From Local Hard Drive:** Use this option to load previously saved router configuration settings. Click **Browse...** and select the saved file and then click the **Upload Settings** button to upload the settings to the router.

**Restore To Factory Default Settings:** This option will restore all settings back to their defaults. Any settings that have not been backed up will be lost, including any rules that you have created.

**Reboot the Device:** This option will reboot the router.



# Firmware Upgrade

Here, you can upgrade the firmware of your router. Make sure the firmware you want to use is on the local hard drive of the computer and then click **Browse** to upload the file. You can check for and download firmware updates at the D-Link support site at <http://support.dlink.com>.

**Current Firmware Version:** Displays your current firmware's version.

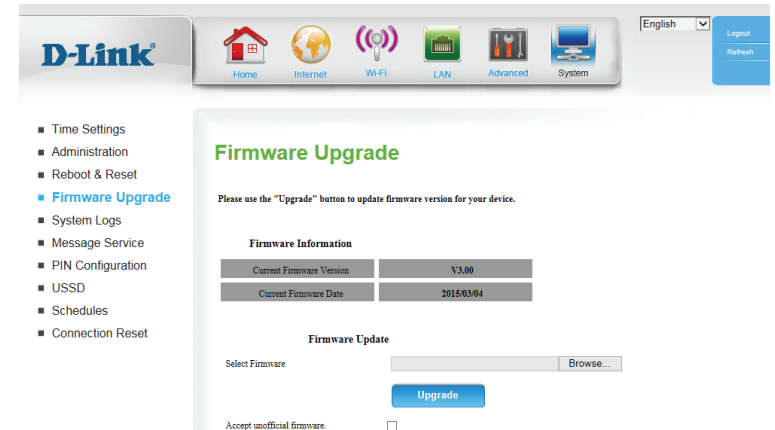
**Current Firmware Date:** Displays your current firmware's release date.

**Upload:** After you have downloaded a new firmware, click **Browse** to locate the firmware on your computer, then click **Upload** to start the firmware upgrade.

**Warning:** You must use a wired connection to upload the firmware file; do not use a wireless connection. During the upgrade process, do not power off your computer or router, and do not refresh the browser window until the upgrade is complete.

**Accept Unofficial Firmware:** If the firmware you want to install is not an official D-Link release, you will need to check this box.

**Warning:** Unofficial firmware is not supported, and may cause damage to your device. Use of unofficial firmware is at your own risk.





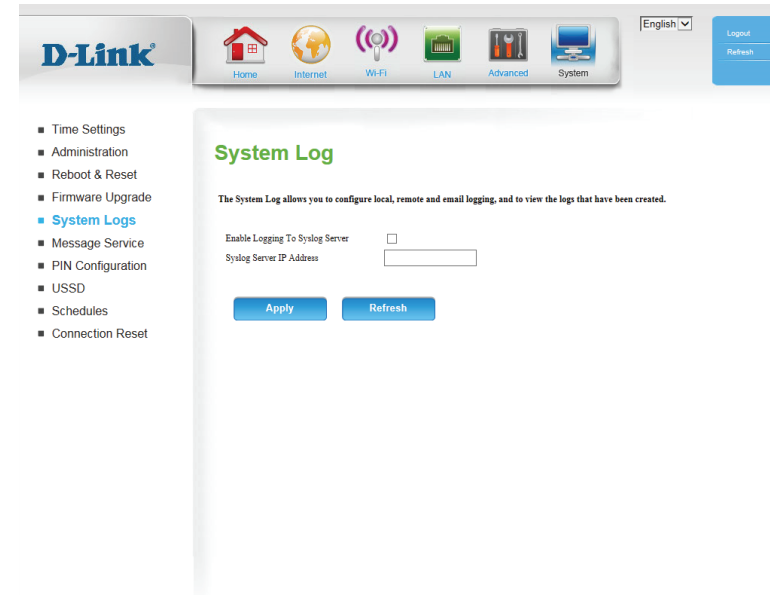
# System Log

The DWR-921 keeps a running log of events and activities occurring on the router. You may send these logs to a Syslog server on your network.

**Enable Logging to Syslog Server:** Check the box to send the router logs to a Syslog server.

**Syslog Server IP Address:** Enter the IP address of the Syslog server that the router will send the logs to.

Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.



# Message Service

## SMS Inbox

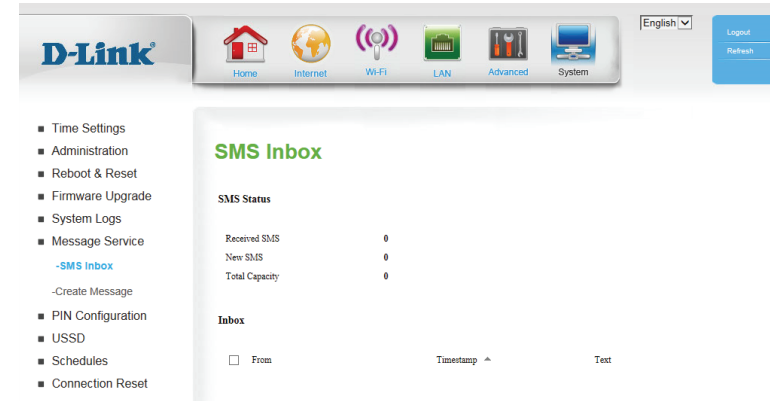
This page shows all messages that are stored on the SIM card. Select a message to display its contents in the SMS window. After you read it, you can delete it, or reply to the sender. Click the Refresh button to update the list.

**Delete:** Deletes the selected SMS message.

**Reply:** Opens a Create Message window to reply to the selected SMS message.

**Forward:** Opens a Create Message windows to forward the selected SMS message to another recipient.

**Refresh:** Click this button to check for new messages.



## Create Message

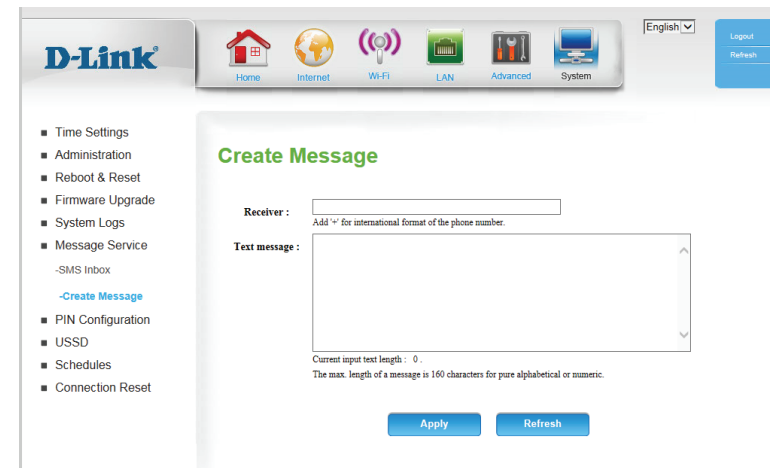
This page allows you to send an SMS to your contacts. Just fill in the phone number of the recipient, and type the content of message. Then click the “Send Message” button to send out this message. If you would like to add more than one recipient, you must put a semicolon (;) between each of the phone numbers.

**Receiver:** Type the phone number of the recipient.

**Text Message:** Type the message that you would like to send.

**Apply:** Click this button to send the message.

**Refresh:** Click this button to clear the message.

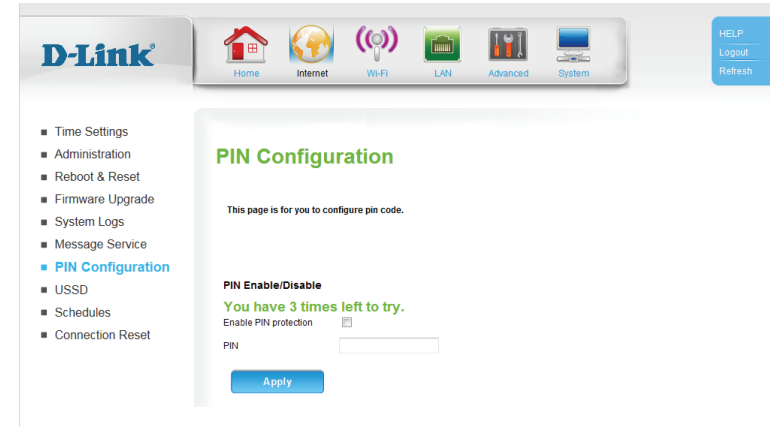


# PIN Configuration

On this page you can configure your SIM card's PIN.

To change your SIM's PIN, enter the new PIN in the **PIN** text field. If you also wish to enable or disable PIN protection, check **Enable PIN protection**. This will mean that you have to input your PIN whenever a device using your SIM card is switched on.

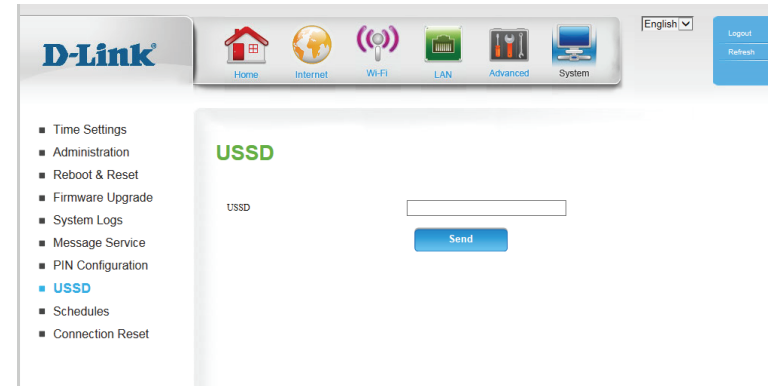
Click **Apply** when you are done.



# USSD

Unstructured Supplementary Service Data (USSD) allows ISP-specific applications to be activated with an SMS message.

**USSD:** Enter an application activation code and click **Send**. This will allow you to activate applications by sending an SMS message to your ISP.



# Schedules

This section allows you to manage schedule rules for various firewall and parental control features. Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

**Enable Schedule:** Check this box to enable schedules.

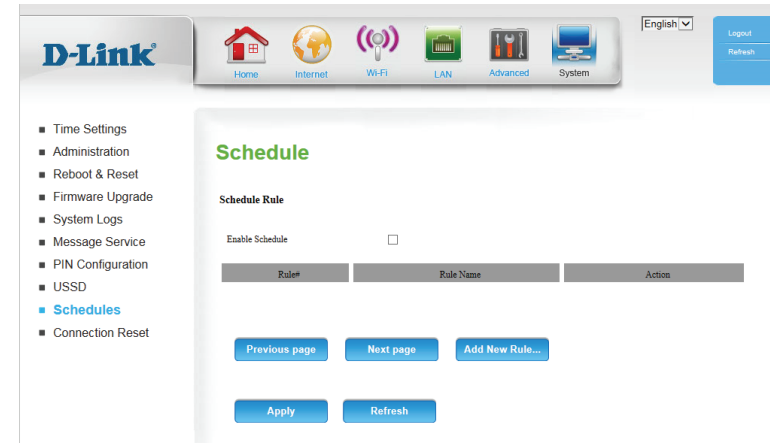
**Edit:** Click this icon to edit the selected rule. (see below)

**Delete:** Click this icon to delete the selected rule.

**Previous Page:** Click this button to go to the previous page of rules.

**Next Page:** Click this button to go to the next page of rules.  
Click this button to specify the start time, end time, and name of the rule.

**Add New Rule...:** Click this button to create a new rule. (see below)



## Add New Rule

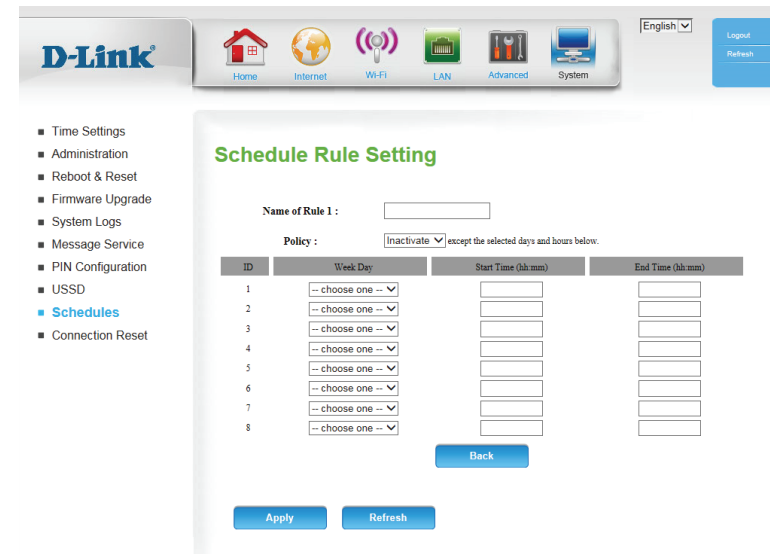
**Name of Rule #:** Enter a name for your new schedule.

**Policy:** Select Activate or Inactivate to decide whether features that use the schedule should be active or inactive except during the times specified.

**Week Day:** Select a day of the week for the start time and end time.

**Start Time (hh:mm):** Enter the time at which you would like the schedule to become active.

**End Time (hh:mm):** Select the time at which you would like the schedule to become inactive.



# Connection Reset

This feature allows you to reset the Internet connection on your router by periodically resetting the connection. You can choose to have this happen on a predetermined schedule by configuring the options on this page.

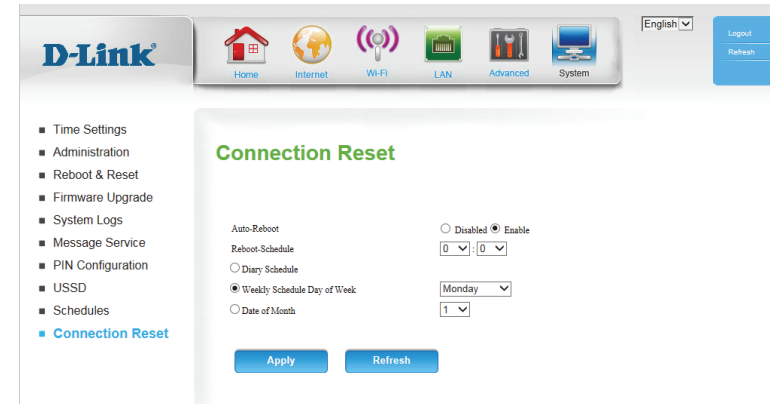
**Auto-Reboot:** Select whether the connection reset feature should be enabled or disabled.

**Reboot-Schedule:** If the connection reset feature is enabled, select when it should activate via the hour and minute from the dropdown boxes.

**Daily Schedule:** Select this option if you want the connection reset feature to activate on a daily schedule.

**Weekly Schedule Day of Week:** Select this option if you want the connection reset feature to activate only on a certain day of the week.

**Date of Month:** Select this option if you want the connection reset feature to activate only on a certain day of the month.



# Connect a Wireless Client to your Router

## WPS Button

The easiest way to connect your wireless devices to the router is with WPS (Wi-Fi Protected Setup). Most wireless devices such as wireless adapters, media players, Blu-ray DVD players, wireless printers and cameras will have a WPS button (or a software utility with WPS) that you can press to connect to the DWR-921 router. Please refer to your user manual for the wireless device you want to connect to make sure you understand how to enable WPS. Once you know, follow the steps below:

**Step 1** - Press the WPS button on the DWR-921 for about 3 second. The Internet LED on the front will start to blink.



**Step 2** - Within 2 minutes, press the WPS button on your wireless client (or launch the software utility and start the WPS process).

**Step 3** - Allow up to 1 minute for your connection to be configured. Once the Internet light stops blinking, you will be connected and your wireless connection will be encrypted with WPA2.

# Connecting to a Wireless Network

## Windows® 10

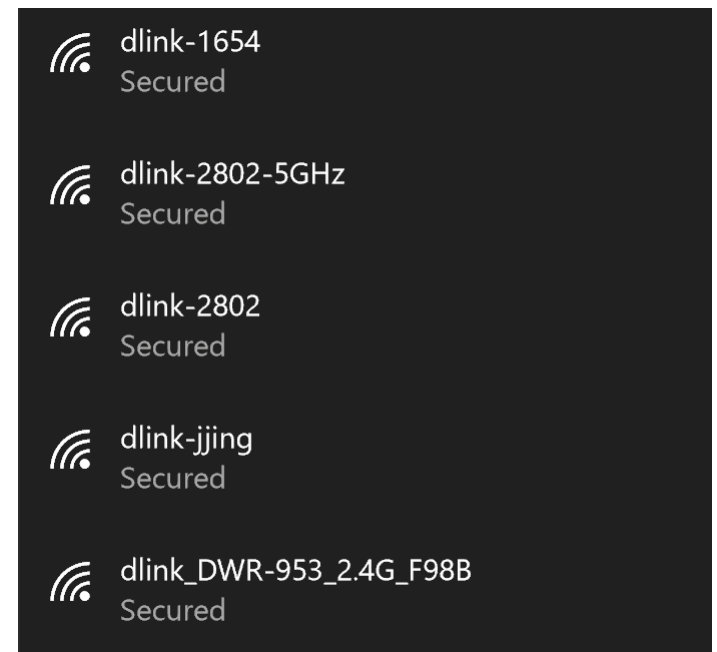
To connect to a wireless network using Windows 10, you will need to know the wireless network name (SSID) and Wi-Fi password (security key) of the device you are connecting to.

To join an existing network, locate the wireless network icon in the taskbar, next to the time display and click on it.



Wireless Icon

Clicking on this icon will display a list of wireless networks which are within range of your computer. Select the desired network by clicking on its SSID.





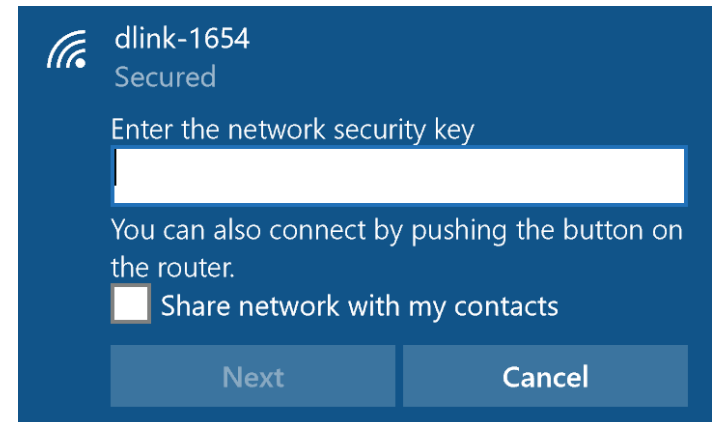
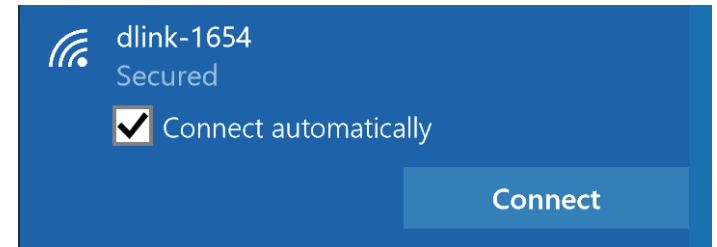
To connect to the network, click **Connect**.

To automatically connect when your device is in range, click the **Connect Automatically** check box. Your computer will now automatically connect to this wireless network whenever it is detected.

You will then be prompted to enter the Wi-Fi password (network security key) for the wireless network. Enter the password into the box and click **Next** to connect to the network.

You can also use Wi-Fi Protected Setup (WPS) to connect to the wireless network. Press the WPS button on your device and you will be automatically connected.

It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as the one on the wireless router.



# Windows® 8

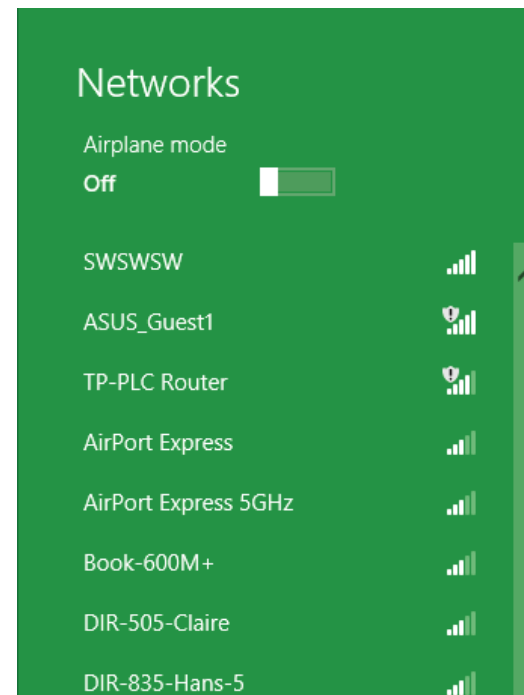
## WPA/WPA2

It is recommended that you enable wireless encryption (WPA/WPA2) on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the encryption key (Wi-Fi password) being used.

To join an existing network, locate the wireless network icon in the taskbar next to the time display.



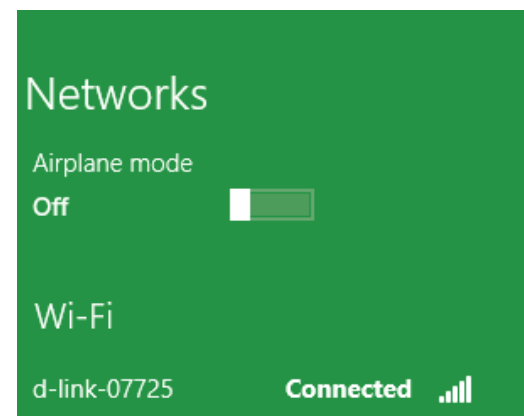
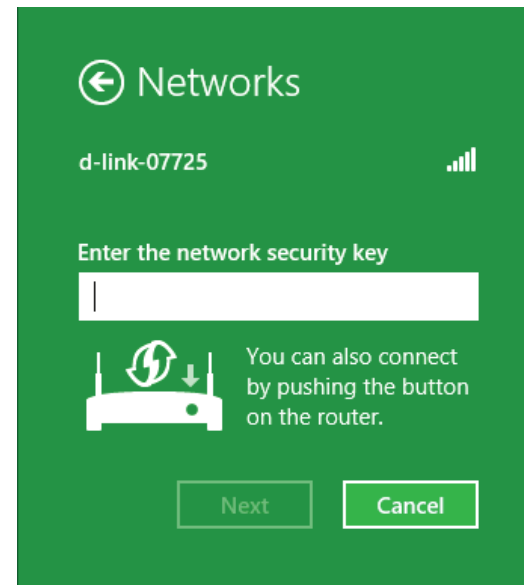
Clicking on this icon will display a list of wireless networks that are within connecting proximity of your computer. Select the desired network by clicking on the network name.



You will then be prompted to enter the network encryption key (Wi-Fi password) for the wireless network. Enter the password into the box and click **Next**.

If you wish to use Wi-Fi Protected Setup (WPS) to connect to the router, you can also press the WPS button on your router during this step to enable the WPS function.

When you have established a successful connection to a wireless network, the word **Connected** will appear next to the name of the network to which you are connected to.

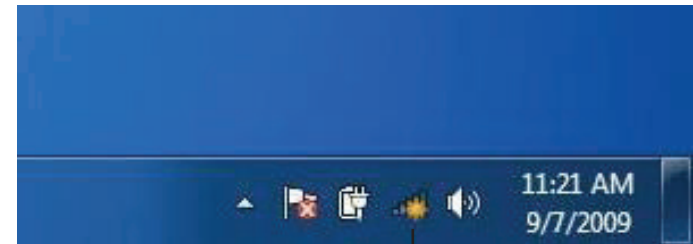


# Windows® 7

## WPA/WPA2

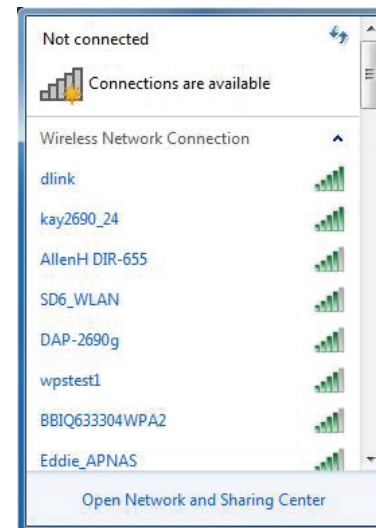
It is recommended that you enable wireless encryption (WPA/WPA2) on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the encryption key or passphrase being used.

1. Click on the wireless icon in your system tray (lower-right corner).



Wireless Icon

2. The utility will display any available wireless networks in your area.

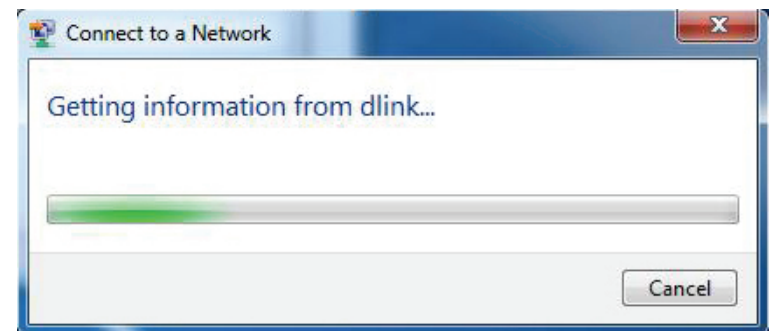


3. Highlight the wireless connection with Wi-Fi name (SSID) you would like to connect to and click the **Connect** button.

If you get a good signal but cannot access the Internet, check your TCP/IP settings for your wireless adapter. Refer to **Networking Basics** on page 86 for more information.

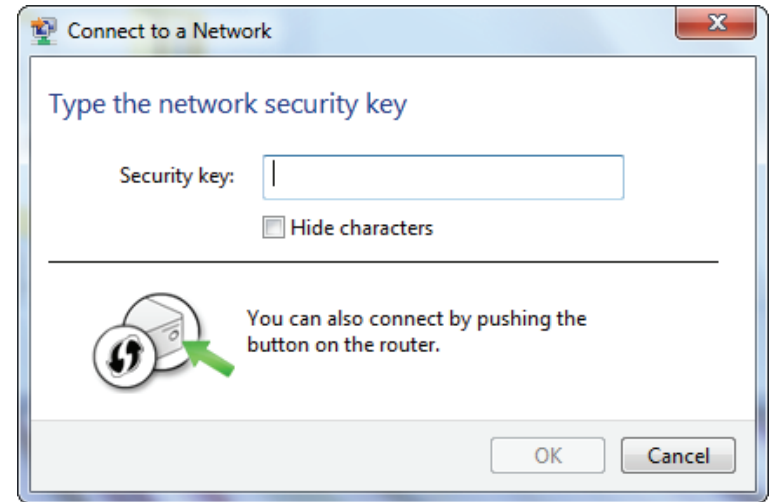


4. The following window appears while your computer tries to connect to the router.



5. Enter the same encryption key or passphrase (Wi-Fi password) that is on your router and click **Connect**. You can also connect by pushing the WPS button on the router.

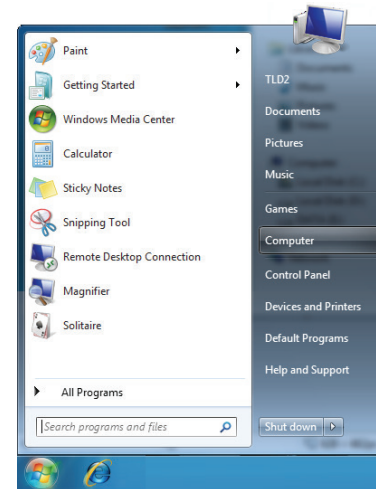
It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as the one on the wireless router.



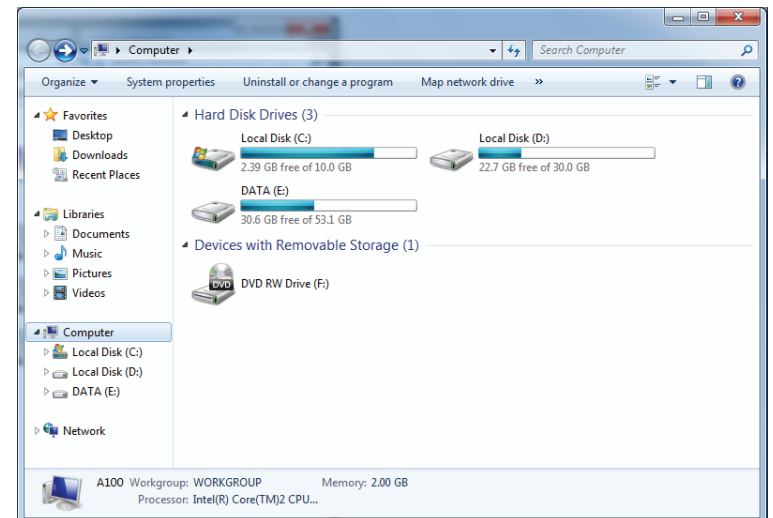
# WPS

The WPS feature of the DWR-921 can be configured using Windows® 7. Carry out the following steps to use Windows® 7 to configure the WPS feature:

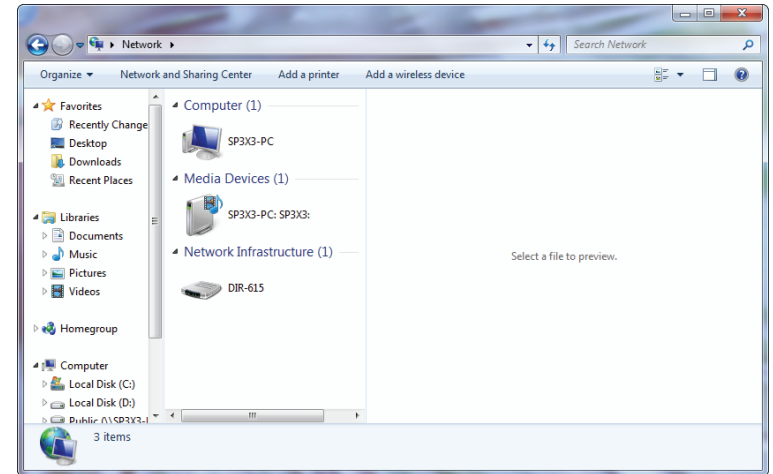
1. Click the **Start** button and select **Computer** from the Start menu.



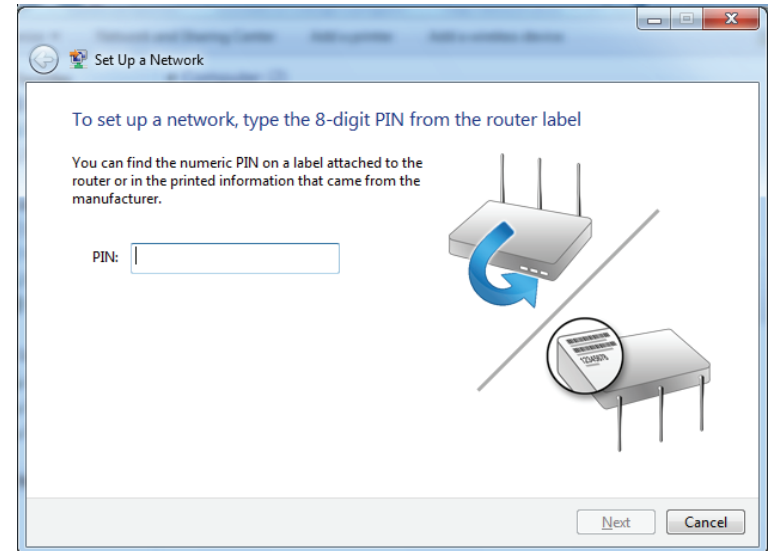
2. Click **Network** on the left side.



3. Double-click the DWR-921.

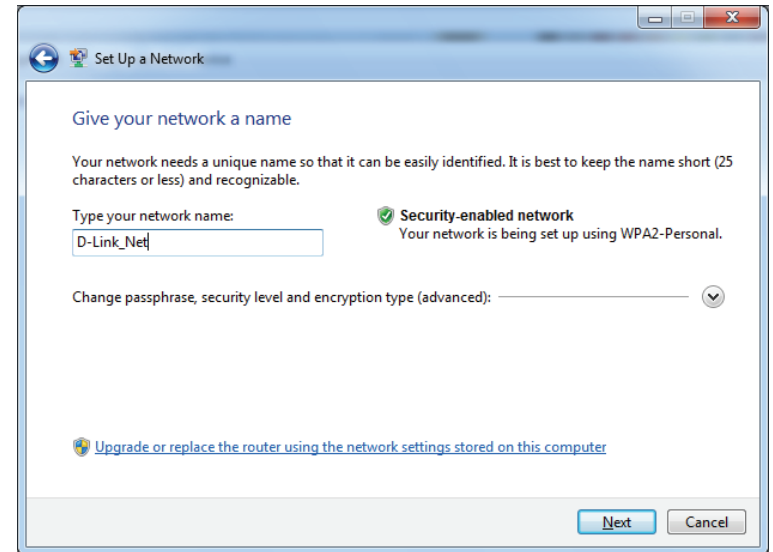


4. Input the WPS PIN number (on the router label) in the **Setup > Wireless Setup** menu in the Router's Web UI) and click **Next**.



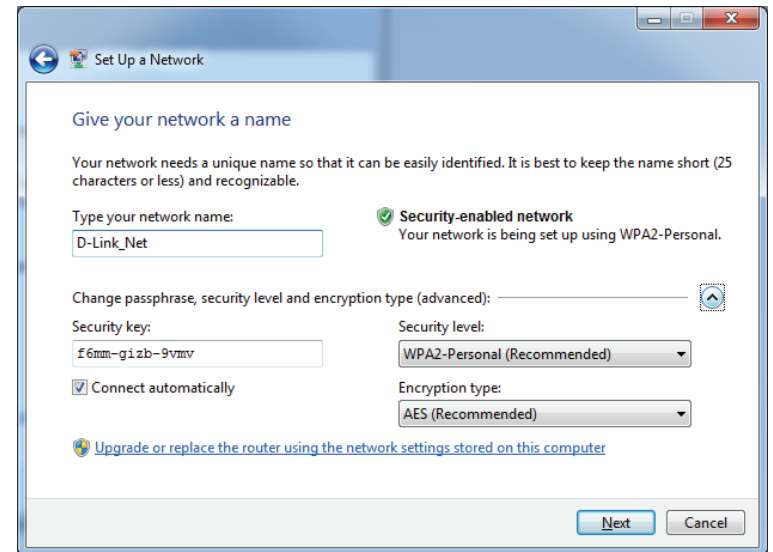


5. Type a name to identify the network.



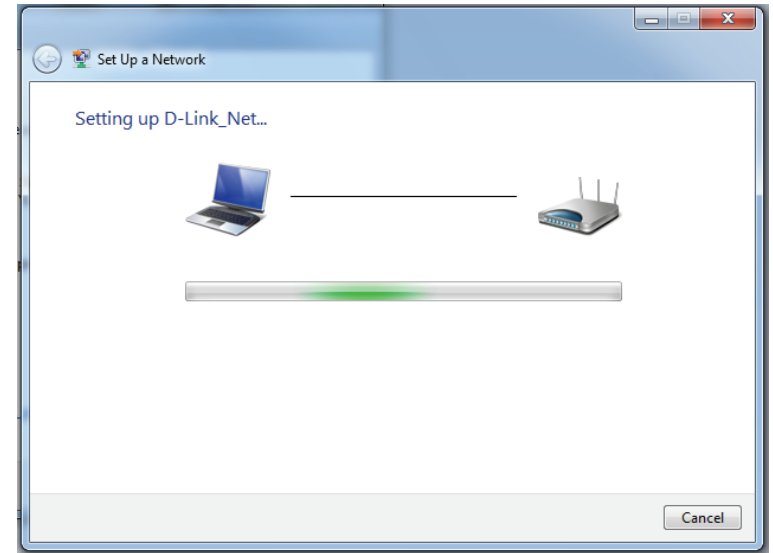
6. To configure advanced settings, click the  icon.

Click **Next** to continue.



7. The following window appears while the router is being configured.

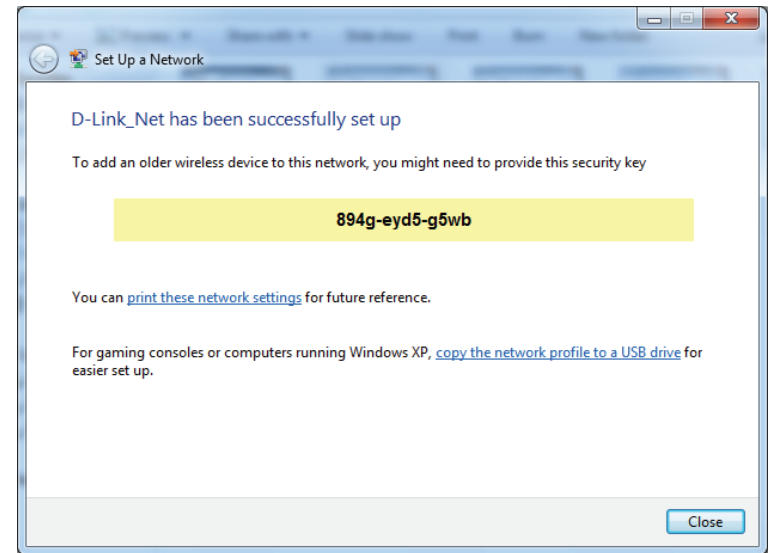
Wait for the configuration to complete.



8. The following window informs you that WPS on the router has been set up successfully.

Make a note of the security key as you may need to provide this security key if adding an older wireless device to the network in the future.

9. Click **Close** to complete WPS setup.



# Windows Vista®

Windows Vista® users may use the built-in wireless utility. If you are using another company's wireless utility, please refer to the user manual of your wireless adapter for help connecting to a wireless network. Most wireless utilities will have a "site survey" option similar to the Windows Vista® utility as seen below.

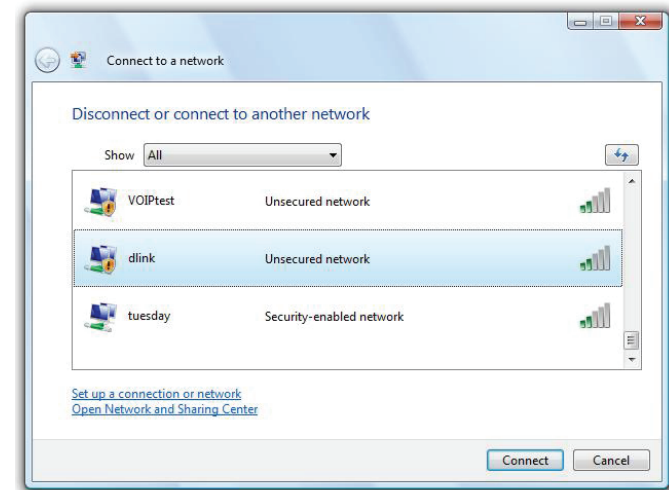
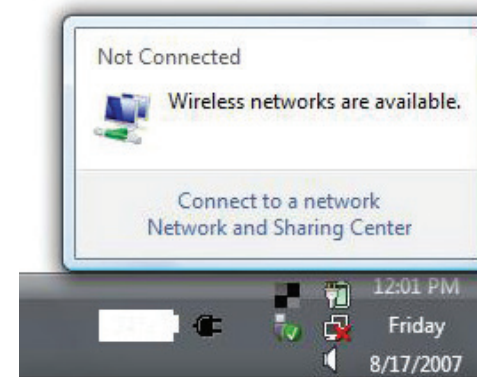
If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

or

Right-click on the wireless computer icon in your system tray (lower-right corner next to the time). Select **Connect to a network**.

The utility will display any available wireless networks in your area. Click on a network (displayed using the SSID) and click the **Connect** button.

If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



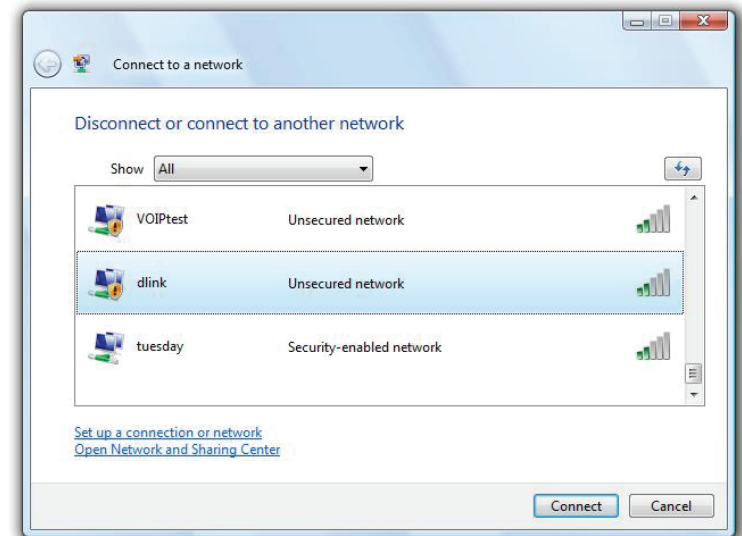
## WPA/WPA2

It is recommended that you enable encryption key (WPA/WPA2) on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the encryption key or passphrase being used.

1. Open the Windows Vista® Wireless Utility by right-clicking on the wireless computer icon in your system tray (lower right corner of screen). Select **Connect to a network**.

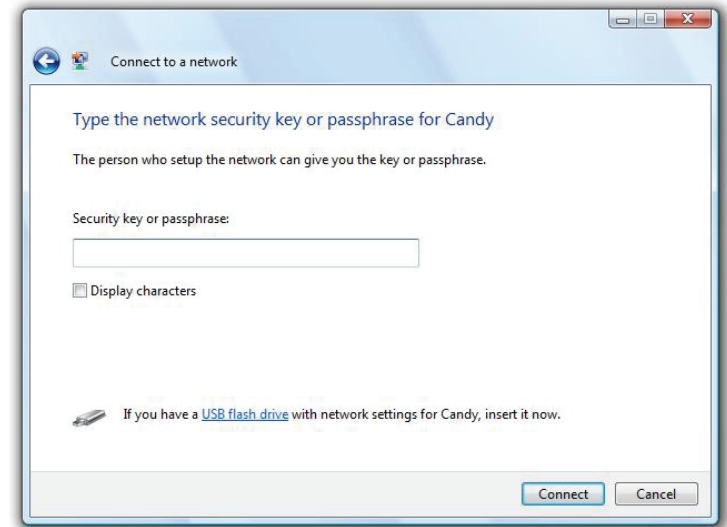


2. Highlight the Wi-Fi name (SSID) you would like to connect to and click **Connect**.



3. Enter the same encryption key or passphrase (Wi-Fi password) that is on your router and click **Connect**.

It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as the one on the wireless router.



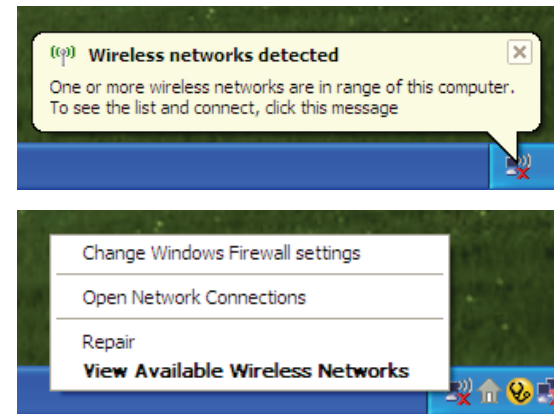
# Windows® XP

Windows® XP users may use the built-in wireless utility (Zero Configuration Utility). The following instructions are for Service Pack 2 users. If you are using another company's utility, please refer to the user manual of your wireless adapter for help with connecting to a wireless network. Most utilities will have a "site survey" option similar to the Windows® XP utility as seen below.

If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

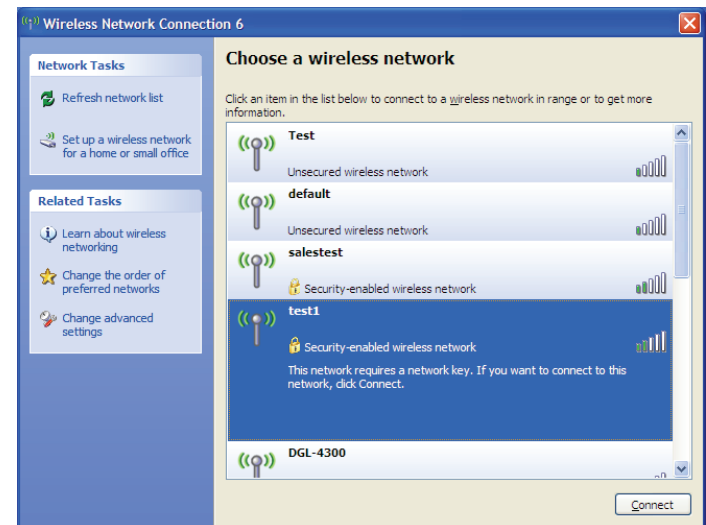
or

Right-click on the wireless computer icon in your system tray (lower-right corner next to the time). Select **View Available Wireless Networks**.



The utility will display any available wireless networks in your area. Click on a Wi-Fi network (displayed using the SSID) and click the **Connect** button.

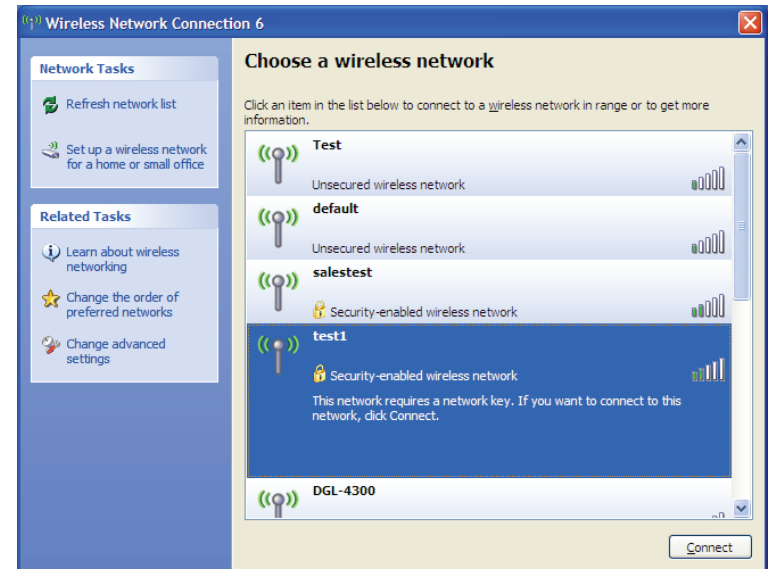
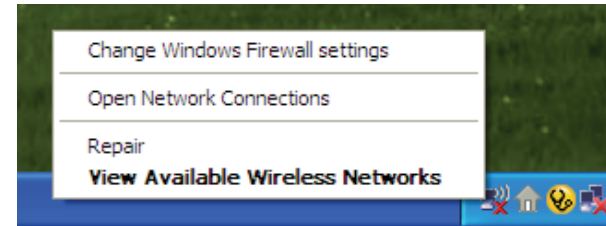
If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



## WPA/WPA2

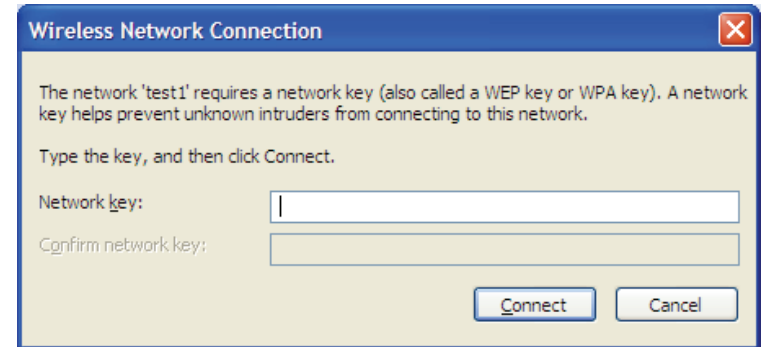
It is recommended to enable WPA on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the WPA key being used.

1. Open the Windows® XP Wireless Utility by right-clicking on the wireless computer icon in your system tray (lower-right corner of screen). Select **View Available Wireless Networks**.
2. Highlight the Wi-Fi network (SSID) you would like to connect to and click **Connect**.



3. The **Wireless Network Connection** box will appear. Enter the WPA-PSK Wi-Fi password and click **Connect**.

It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the WPA-PSK settings are correct. The Wi-Fi password must be exactly the same as on the wireless router.





# Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DWR-921. Read the following descriptions if you are having problems. The examples below are illustrated in Windows® XP. If you have a different operating system, the screenshots on your computer will look similar to these examples.

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

When entering the IP address of the D-Link router (**192.168.0.1** for example), you are not connecting to a website, nor do you have to be connected to the Internet. The device has the utility built-in to a ROM chip in the device itself. Your computer must be on the same IP subnet to connect to the web-based utility.

- Make sure you have an updated Java-enabled web browser. We recommend the following:
  - Microsoft Internet Explorer® 7 or higher
  - Mozilla Firefox 3.5 or higher
  - Google™ Chrome 8 or higher
  - Apple Safari 4 or higher
- Verify physical connectivity by checking for solid link lights on the device. If you do not get a solid link light, try using a different cable, or connect to a different port on the device if possible. If the computer is turned off, the link light may not be on.
- Disable any Internet security software running on the computer. Software firewalls such as ZoneAlarm, BlackICE, Sygate, Norton Personal Firewall, and Windows® XP firewall may block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it.

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

## 2. What can I do if I forgot my password?

If you forgot your password, you must reset your router. This process will change all your settings back to the factory defaults.

To reset the router, locate the reset button (hole) on the rear panel of the unit. With the router powered on, use a paperclip to hold the button down for 10 seconds. Release the button and the router will go through its reboot process. Wait about 30 seconds to access the router. The default IP address is **192.168.0.1**. When logging in, leave the password box empty.

### 3. Why can't I connect to certain sites or send and receive emails when connecting through my router?

If you are having a problem sending or receiving email, or connecting to secure sites such as eBay, banking sites, and Hotmail, we suggest lowering the MTU in increments of ten (Ex. 1492, 1482, 1472, etc).

To find the proper MTU Size, you'll have to do a special ping of the destination you're trying to go to. A destination could be another computer, or a URL.

- Click on **Start** and then click **Run**.
- Windows® 95, 98, and Me users type in **command** (Windows® NT, 2000, XP, Vista®, and 7 users type in **cmd**) and press **Enter** (or click **OK**).
- Once the window opens, you'll need to do a special ping. Use the following syntax:

**ping [url] [-f] [-l] [MTU value]**

Example: **ping yahoo.com -f -l 1472**

```
C:\>ping yahoo.com -f -l 1482
Pinging yahoo.com [66.94.234.13] with 1482 bytes of data:
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
Ping statistics for 66.94.234.13:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping yahoo.com -f -l 1472
Pinging yahoo.com [66.94.234.13] with 1472 bytes of data:
Reply from 66.94.234.13: bytes=1472 time=93ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=109ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=125ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=203ms TTL=52
Ping statistics for 66.94.234.13:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 93ms, Maximum = 203ms, Average = 132ms
C:\>
```

You should start at 1472 and work your way down by 10 each time. Once you get a reply, go up by 2 until you get a fragmented packet. Take that value and add 28 to the value to account for the various TCP/IP headers. For example, let's say that 1452 was the proper value, the actual MTU size would be 1480, which is the optimum for the network we're working with ( $1452+28=1480$ ).

Once you find your MTU, you can now configure your router with the proper MTU size.

To change the MTU rate on your router follow the steps below:

- Navigate to the Internet configuration page (see **Internet** on page 8 for details).
- To change the MTU, enter the number in the MTU field and click **Apply** to save your settings.
- Test your email. If changing the MTU does not resolve the problem, continue changing the MTU in increments of ten.

# Wireless Basics

D-Link wireless products are based on industry standards to provide easy-to-use and compatible high-speed wireless connectivity within your home, business, or public access wireless networks. Strictly adhering to the IEEE standard, the D-Link wireless family of products will allow you to 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 work, and communicate more efficiently. Increased mobility and the absence of cabling and other fixed infrastructure have proven to be beneficial for many users.

Wireless users can use the same applications they use on a wired network. Wireless adapter cards used on laptop and desktop systems support the same protocols as Ethernet adapter cards.

Under many circumstances, it may be desirable for mobile network devices to link to a conventional Ethernet LAN in order to use servers, printers or an Internet connection supplied through the wired LAN. A wireless router is a device used to provide this link.

## **What is Wireless?**

Wireless or Wi-Fi technology is another way of connecting your computer to the network without using wires. Wi-Fi uses radio frequency to connect wirelessly so you have the freedom to connect computers anywhere in your home or office network.

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

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

## **How does wireless work?**

Wireless works similarly to how cordless phones work, through radio signals that 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 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, university 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. This makes it ideal for personal devices, such as mobile phones, PDAs, headphones, laptops, speakers, and other devices that operate on batteries.

## **Who uses wireless?**

Wireless technology has become so popular in recent years that almost everyone is using it, whether it's for home, office, business, D-Link has a wireless solution for it.

### **Home Uses/Benefits**

- 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 Uses/Benefits**

- 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 D-Link CardBus Adapter with your laptop, you can access the hotspot to connect to the Internet from remote locations like: airports, hotels, coffee shops, libraries restaurants, and convention centers.

Wireless network is easy to setup, but if you're installing it for the first time it could be quite a task not knowing where to start. That's why we've put together a few setup steps and tips to help you through the process of setting up a wireless network.

## **Tips**

Here are a few things to keep in mind, when you install a wireless network.

### **Centralize your router or access point**

Make sure you place the router/access point in a centralized location within your network for the best performance. Try to place the router/access point as high as possible in the room, so the signal gets dispersed throughout your home. If you have a two-story home, you may need a repeater to boost the signal to extend the range.

### **Eliminate interference**

Place home appliances such as cordless telephones, microwaves, and televisions as far away as possible from the router/access point. This would significantly reduce any interference that the appliances might cause since they operate on same frequency.



## Encryption

Encrypt your wireless network by turning on the WPA2 encryption feature on the router to help keep unauthorized users from accessing your wireless network. Refer to the 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 DWR-921 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.

# Networking Basics

## Check your IP address

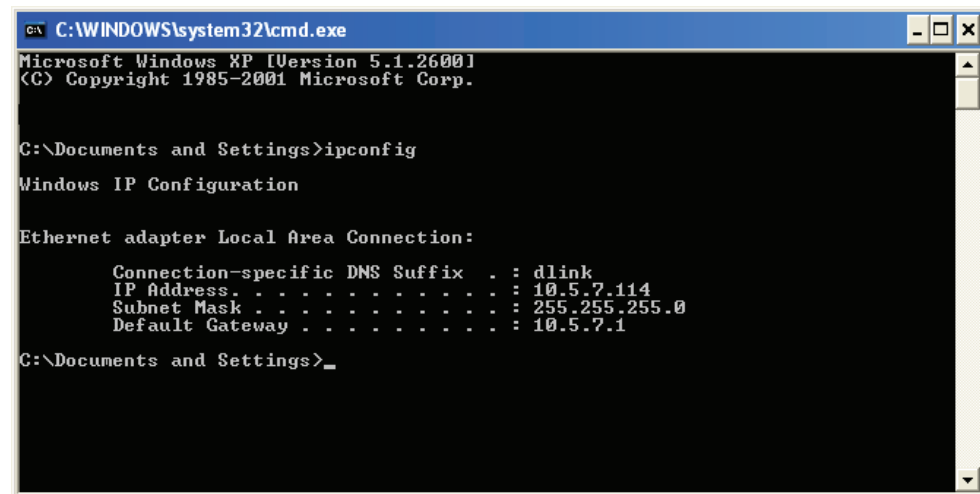
After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

Click on **Start > Run**. In the run box type **cmd** and click **OK**. (Windows® 7/Vista® users type **cmd** in the **Start Search** box.)

At the prompt, type **ipconfig** and press **Enter**.

This will display the IP address, subnet mask, and the default gateway of your adapter.

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your router. Some firewall software programs may block a DHCP request on newly installed adapters.



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

C:\Documents and Settings>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

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

C:\Documents and Settings>_
```

## Statically Assign an IP address

If you are not using a DHCP capable gateway/router, or you need to assign a static IP address, please follow the steps below:

- Step 1**
- Windows® 7 - Click on **Start > Control Panel > Network and Internet > Network and Sharing Center.**
  - Windows Vista® - Click on **Start > Control Panel > Network and Internet > Network and Sharing Center > Manage Network Connections.**
  - Windows® XP - Click on **Start > Control Panel > Network Connections.**
  - Windows® 2000 - From the desktop, right-click **My Network Places > Properties.**

**Step 2**  
Right-click on the **Local Area Connection** which represents your network adapter and select **Properties.**

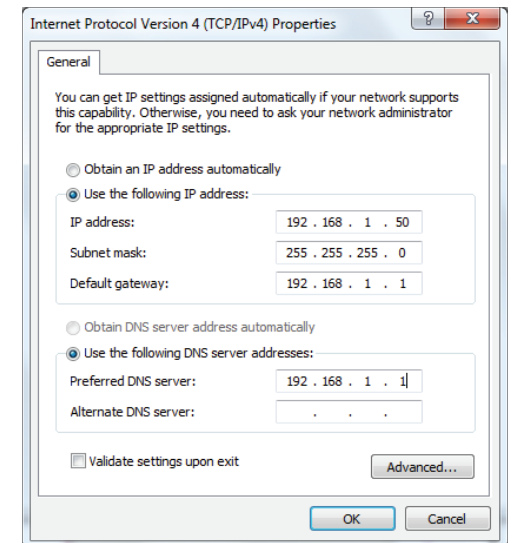
**Step 3**  
Highlight **Internet Protocol Version 4 (TCP/IPv4)** and click **Properties.**

**Step 4**  
Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

Example: If the router's LAN IP address is 192.168.0.1, make your IP address 192.168.1.X where X is a number between 2 and 99. Make sure that the number you choose is not in use on the network. Set the Default Gateway the same as the LAN IP address of your router (I.E. 192.168.0.1).

Set Primary DNS the same as the LAN IP address of your router (192.168.0.1). The Alternate DNS is not needed or you may enter a DNS server from your ISP.

**Step 5**  
Click **OK** twice to save your settings.



## Wireless Encryption

This section will show you the different levels of encryption you can use to help restrict access to your wireless network by unauthorized users. The DWR-921 offers the following types of encryption:

- WPA2 (Wi-Fi Protected Access 2)
- WPA (Wi-Fi Protected Access)
- WPA2-PSK (Pre-Shared Key)
- WPA-PSK (Pre-Shared Key)

### What is WPA?

WPA (Wi-Fi Protected Access), is a Wi-Fi standard that was designed to improve the encryption features of WEP (Wired Equivalent Privacy).

The 2 major improvements over WEP:

- Improved data encryption through the Temporal Key Integrity Protocol (TKIP). TKIP scrambles the keys using a hashing algorithm and by adding an integrity-checking feature, ensures that the keys haven't been tampered with. WPA2 is based on 802.11i and uses Advanced Encryption Standard (AES) instead of TKIP.
- User authentication, which is generally missing in WEP, through the extensible authentication protocol (EAP). WEP regulates access to a wireless network based on a computer's hardware-specific MAC address, which is relatively simple to be sniffed out and stolen. EAP is built on a stronger public-key encryption system.

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 stronger public key encryption system to ensure.

# Technical Specifications

## LTE Band Support<sup>1</sup>

- Release 10, Category 4: Bands 1/2/3/5/7/8/20/38/40

## UMTS/HSDPA/HSUPA/HSPA+/DC-HSPA+ Band Support<sup>1</sup>

- Bands 1/2/3/5/8 (850/900/1800/1900/2100)

## GSM Quad-band<sup>1</sup>

- 850/900/1800/1900/MHz

## Data Rates<sup>2</sup>

- Up to 300 Mbps with 802.11n clients
- 6 / 9 / 11 / 12 / 18 / 24 / 36 / 48 / 54 Mbps in 802.11g mode
- 1 / 2 / 5.5 / 11 Mbps in 802.11b mode
- LTE Uplink: Up to 50 Mbps
- LTE Downlink: Up to 150 Mbps

## Standards

- IEEE 802.11b/g, compatible with 802.11n devices
- IEEE 802.3i
- IEEE 802.3u

## Wireless Encryption

- 64 / 128-bit WEP (Wired Equivalent Privacy)
- WPA & WPA2 (Wi-Fi Protected Access)

## Firewall

- Network Address Translation (NAT)
- Stateful Packet Inspection (SPI)

## VPN

- L2TP/PPTP/IPSEC/VPN Pass-through

## Antenna

- Two detachable 3G/4G antennas

## Ports

- Four LAN ports (RJ-45)
- WAN port (RJ-45)

## SIM/UICC Slot

- Standard mini-SIM/UICC card interface

## LED Status Indicators

- Power
- LAN
- WLAN
- 2G / 3G
- 4G
- SMS
- Signal Strength

## Dimensions

- 190 x 111.5 x 23.5 mm (7.48 x 4.39 x 0.93 inches)

## Operating Temperature

- 0 to 40 °C (32 to 104 °F)

## Operating Humidity

- 10% to 90% (Non-condensing)

## Certifications

- CE

<sup>1</sup> Supported frequency bands are dependent on regional variants and may not be available in all markets.

<sup>2</sup> Maximum wireless signal rate derived from IEEE Standard 802.11g/b/n 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.

# Regulatory Information



	<b>Frequency Band(s)</b> <b>Frequenzband</b> <b>Fréquence bande(s)</b> <b>Bandas de Frecuencia</b> <b>Frequenza/e</b> <b>Frequentie(s)</b>	<b>Max. Output Power (EIRP)</b> <b>Max. Output Power</b> <b>Consommation d'énergie max.</b> <b>Potencia máxima de Salida</b> <b>Potenza max. Output</b> <b>Max. Output Power</b>
2.4 G	TX/RX 2412 MHz - 2472 MHz	19.9 dBm (E.I.R.P.)
GSM	TX 880.2 MHz - 914.8 MHz RX 925.2 MHz - 959.8 MHz	32.9 dBm (Power class 4)
GSM (Band 2)	TX 1850.2 MHz ~ 1909.8MHz RX 1930.2 MHz~1989.8MHz	33.0 dBm (Power class 4)
GSM (Band 5)	TX 824.2 MHz ~ 848.8 MHz RX 869.2MHz – 893.8MHz	33.0 dBm (Power class 4)
DCS	TX 1710.2 MHz - 1784.8 MHz RX 1805.2 MHz - 1879.8 MHz	30.13 dBm (Power class 1)
WCDMA FDD I	TX 1922.4 MHz - 1977.6 MHz RX 2112.4 MHz - 2167.6 MHz	23.88 dBm (Power class 3)
WCDMA FDD II	TX 1852.4 MHz ~ 1907.6 MHz RX 1932.4 MHz~1987.6MHz	24.00 dBm (Power class 3)
WCDMA FDD III	TX 1712.4 MHz - 1782.6MHz RX 1807.4 MHz - 1877.6MHz	24.00 dBm (Power class 3)
WCDMA FDD V	TX 826.4 MHz ~ 846.6 MHz RX 871.4MHz – 891.6MHz	24.00 dBm (Power class 3)
WCDMA FDD VIII	TX 882.4 MHz - 912.6 MHz RX 927.4 MHz - 957.6 MHz	22.77 dBm (Power class 3)

LTE Band 1	TX 1922.5 MHz - 1977.5 MHz RX 2112.5 MHz - 2167.5 MHz	23.87 dBm (Power class 3)
LTE Band 2	TX 1850.7 MHz ~ 1909.3 MHz RX 1930.7 MHz ~ 1989.3 MHz	23.00 dBm (Power class 3)
LTE Band 3	TX 1710.7 MHz - 1784.3 MHz RX 1805.7 MHz - 1879.3 MHz	23.26 dBm (Power class 3)
LTE Band 5	TX 824.7 MHz ~ 848.3 MHz RX 869.7 MHz ~ 893.3 MHz	23.00 dBm (Power class 3)
LTE Band 7	TX 2502.5 MHz - 2567.5 MHz RX 2622.5 MHz - 2687.5 MHz	23.03 dBm (Power class 3)
LTE Band 8	TX 880.7 MHz - 914.3 MHz RX 925.7 MHz - 959.3 MHz	22.6 dBm (Power class 3)
LTE Band 20	TX 834.5 MHz - 859.5 MHz RX 793.5 MHz - 818.5 MHz	23.59 dBm (Power class 3)
LTE Band 38	TX/RX 2572.5 MHz - 2617.5 MHz	24.06 dBm (Power class 3)
LTE Band 40	TX/RX 2302.5 MHz - 2397.5 MHz	23.35 dBm (Power class 3)

## European Community Declaration of Conformity:

Česky [Czech]	Tímto D-Link Corporation prohlašuje, že tento produkt, jeho příslušenství a software jsou v souladu se směrnicí 2014/53/EU. Celý text ES prohlášení o shodě vydaného EU a o firmwaru produktu lze stáhnout na stránkách k produktu <a href="http://www.dlink.com">www.dlink.com</a> .
Dansk [Danish]	D-Link Corporation erklærer herved, at dette produkt, tilbehør og software er i overensstemmelse med direktiv 2014/53/EU. Den fulde tekst i EU-overensstemmelseserklæringen og produktfirmware kan wnloades fra produktsiden hos <a href="http://www.dlink.com">www.dlink.com</a> .
Deutsch [German]	Hiermit erklärt die D-Link Corporation, dass dieses Produkt, das Zubehör und die Software der Richtlinie 2014/53/EU entsprechen. Der vollständige Text der Konformitätserklärung der Europäischen Gemeinschaft sowie die Firmware zum Produkt stehen Ihnen zum Herunterladen von der Produktseite im Internet auf <a href="http://www.dlink.com">www.dlink.com</a> zur Verfügung.
Eesti [Estonian]	Käesolevaga kinnitab D-Link Corporation, et see toode, tarvikud ja tarkvara on kooskõlas direktiiviga 2014/53/EL. Euroopa Liidu vastavusdeklaratsiooni täistekst ja toote püsivara on allalaadimiseks saadaval tootelehel <a href="http://www.dlink.com">www.dlink.com</a> .
English	Hereby, D-Link Corporation, declares that this product, accessories, and software are in compliance with directive 2014/53/EU. The full text of the EU Declaration of Conformity and product firmware are available for download from the product page at <a href="http://www.dlink.com">www.dlink.com</a>
Español [Spanish]	Por la presente, D-Link Corporation declara que este producto, accesorios y software cumplen con las directivas 2014/53/UE. El texto completo de la declaración de conformidad de la UE y el firmware del producto están disponibles y se pueden descargar desde la página del producto en <a href="http://www.dlink.com">www.dlink.com</a> .
Ελληνική [Greek]	Με την παρούσα, η D-Link Corporation δηλώνει ότι αυτό το προϊόν, τα αξεσουάρ και το λογισμικό συμμορφώνονται με την Οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης της ΕΕ και το υλικολογισμικό του προϊόντος είναι διαθέσιμα για λήψη από τη σελίδα του προϊόντος στην τοποθεσία <a href="http://www.dlink.com">www.dlink.com</a> .
Français [French]	Par les présentes, D-Link Corporation déclare que ce produit, ces accessoires et ce logiciel sont conformes aux directives 2014/53/UE. Le texte complet de la déclaration de conformité de l'UE et le icroprogramme du produit sont disponibles au téléchargement sur la page des produits à <a href="http://www.dlink.com">www.dlink.com</a> .
Italiano [Italian]	Con la presente, D-Link Corporation dichiara che questo prodotto, i relativi accessori e il software sono conformi alla direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE e il firmware del prodotto sono disponibili per il download dalla pagina del prodotto su <a href="http://www.dlink.com">www.dlink.com</a> .



Latviski [Latvian]	Ar šo uzņēmums D-Link Corporation apliecina, ka šis produkts, piederumi un programmatūra atbilst direktīvai 2014/53/ES. ES atbilstības deklarācijas pilno tekstu un produkta aparātprogrammatūru var lejupielādēt attiecīgā produkta lapā vietnē <a href="http://www.dlink.com">www.dlink.com</a> .
Lietuvių [Lithuanian]	Šiuo dokumentu „D-Link Corporation“ pareiškia, kad šis gaminys, priedai ir programinė įranga atitinka direktyvą 2014/53/ES. Visą ES atitikties deklaracijos tekstą ir gaminio programinę aparatinę įrangą galima atsisiųsti iš gaminio puslapio adresu <a href="http://www.dlink.com">www.dlink.com</a> .
Nederlands [Dutch]	Hierbij verklaart D-Link Corporation dat dit product, accessoires en software voldoen aan de richtlijnen 2014/53/EU. De volledige tekst van de EU conformiteitsverklaring en productfirmware is beschikbaar voor download van de productpagina op <a href="http://www.dlink.com">www.dlink.com</a> .
Malti [Maltese]	Bil-preżenti, D-Link Corporation tiddikjara li dan il-prodott, l-aċċessorji, u s-software huma konformi mad-Direttiva 2014/53/UE. Tista' tniżżel it-test sħiħ tad-dikjarazzjoni ta' konformità tal-UE u l-firmware tal-prodott mill-paġna tal-prodott fuq <a href="http://www.dlink.com">www.dlink.com</a> .
Magyar [Hungarian]	Ezennel a D-Link Corporation kijelenti, hogy a jelen termék, annak tartozékai és szoftvere megfelelnek a 2014/53/EU sz. rendeletnek. Az EU Megfelelőségi nyilatkozat teljes szövege és a termék firmware a termék oldaláról tölthető le a <a href="http://www.dlink.com">www.dlink.com</a> címen.
Polski [Polish]	D-Link Corporation niniejszym oświadcza, że ten produkt, akcesoria oraz oprogramowanie są zgodne z dyrektywami 2014/53/EU. Pełen tekst deklaracji zgodności UE oraz oprogramowanie sprzętowe do produktu można pobrać na stronie produktu w witrynie <a href="http://www.dlink.com">www.dlink.com</a> .
Português [Portuguese]	Desta forma, a D-Link Corporation declara que este produto, os acessórios e o software estão em conformidade com a diretiva 2014/53/UE. O texto completo da declaração de conformidade da UE e do firmware
Slovensko[Slovenian]	Podjetje D-Link Corporation s tem izjavlja, da so ta izdelek, dodatna oprema in programnska oprema skladni z direktivami 2014/53/EU. Celotno besedilo izjave o skladnosti EU in vdelana programska oprema sta na voljo za prenos na strani izdelka na <a href="http://www.dlink.com">www.dlink.com</a> .
Slovensky [Slovak]	Spoločnosť D-Link týmto vyhlasuje, že tento produkt, príslušenstvo a softvér sú v súlade so smernicou 214/53/EÚ. Úplné znenie vyhlásenia EÚ o zhode a firmvéri produktu sú k dispozícii na prevzatie zo stránky produktu <a href="http://www.dlink.com">www.dlink.com</a> .
Suomi [Finnish]	D-Link Corporation täten vakuuttaa, että tämä tuote, lisävarusteet ja ohjelmisto ovat direktiivin 2014/53/EU vaatimusten mukaisia. Täydellinen EU-vaatimustenmukaisuusvakuutus samoin kuin tuotteen laiteohjelmisto ovat ladattavissa osoitteesta <a href="http://www.dlink.com">www.dlink.com</a> .

Svenska [Swedish]	D-Link Corporation försäkrar härmed att denna produkt, tillbehör och programvara överensstämmer med direktiv 2014/53/EU. Hela texten med EU-försäkran om överensstämmelse och produkt-firmware kan hämtas från produktsidan på <a href="http://www.dlink.com">www.dlink.com</a> .
Íslenska [Icelandic]	Hér með lýsir D-Link Corporation því yfir að þessi vara, fylgihlutir og hugbúnaður eru í samræmi við tilskipun 2014/53/EB. Sækja má ESB-samræmisýfirlýsinguna í heild sinni og fastbúnað vörunnar af vefsíðu vörunnar á <a href="http://www.dlink.com">www.dlink.com</a> .
Norsk [Norwegian]	Herved erklærer D-Link Corporation at dette produktet, tilbehøret og programvaren er i samsvar med direktivet 2014/53/EU. Den fullstendige teksten i EU-erklæring om samsvar og produktets fastvare er tilgjengelig for nedlasting fra produktsiden på <a href="http://www.dlink.com">www.dlink.com</a> .

**Warning Statement:**

The power outlet should be near the device and easily accessible.

### **NOTICE OF WIRELESS RADIO LAN USAGE IN THE EUROPEAN COMMUNITY (FOR WIRELESS PRODUCT ONLY):**

- This device is restricted to indoor use when operated in the European Community using channels in the 5.15-5.35 GHz band to reduce the potential for interference.
- This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries. This equipment may be operated in AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, and CY.

#### **Usage Notes:**

- To remain in conformance with European National spectrum usage regulations, frequency and channel limitations will be applied on the products according to the country where the equipment will be deployed.
- This device is restricted from functioning in Ad-hoc mode while operating in 5 GHz. Ad-hoc mode is direct peer-to-peer communication between two client devices without an Access Point.
- Access points will support DFS (Dynamic Frequency Selection) and TPC (Transmit Power Control) functionality as required when operating in 5 GHz band within the EU.
- Please refer to the product manual or datasheet to check whether your product uses 2.4 GHz and/or 5 GHz wireless.

### **HINWEIS ZUR VERWENDUNG VON DRAHTLOS-NETZWERK (WLAN) IN DER EUROPÄISCHEN GEMEINSCHAFT ( NUR FÜR EIN DRAHTLOSES PRODUKT )**

- Der Betrieb dieses Geräts in der Europäischen Gemeinschaft bei Nutzung von Kanälen im 5,15-5,35 GHz Frequenzband ist ausschließlich auf Innenräume beschränkt, um das Interferenzpotential zu reduzieren.
- Bei diesem Gerät handelt es sich um ein zum Einsatz in allen EU-Mitgliedsstaaten und in EFTA-Ländern - ausgenommen Frankreich. Der Betrieb dieses Geräts ist in den folgenden Ländern erlaubt: AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

#### **Gebrauchshinweise:**

- Um den in Europa geltenden nationalen Vorschriften zum Nutzen des Funkspektrums weiterhin zu entsprechen, werden Frequenz und Kanalbeschränkungen, dem jeweiligen Land, in dem das Gerät zum Einsatz kommt, entsprechend, auf die Produkte angewandt.
- Die Funktionalität im Ad-hoc-Modus bei Betrieb auf 5 GHz ist für dieses Gerät eingeschränkt. Bei dem Ad-hoc-Modus handelt es sich um eine Peer-to-Peer-Kommunikation zwischen zwei Client-Geräten ohne einen Access Point.
- Access Points unterstützen die Funktionen DFS (Dynamic Frequency Selection) und TPC (Transmit Power Control) wie erforderlich bei Betrieb auf 5 GHz innerhalb der EU.
- Bitte schlagen Sie im Handbuch oder Datenblatt nach, ob Ihr Gerät eine 2,4 GHz und / oder 5 GHz Verbindung nutzt.

## **AVIS CONCERNANT L'UTILISATION DE LA RADIO SANS FIL LAN DANS LA COMMUNAUTÉ EUROPÉENNE (UNIQUEMENT POUR LES PRODUITS SANS FIL)**

- Cet appareil est limité à un usage intérieur lorsqu'il est utilisé dans la Communauté européenne sur les canaux de la bande de 5,15 à 5,35 GHz afin de réduire les risques d'interférences.
- Cet appareil est un système de transmission à large bande (émetteur-récepteur) de 2,4 GHz, destiné à être utilisé dans tous les États-membres de l'UE et les pays de l'AELE. Cet équipement peut être utilisé dans les pays suivants : AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

### **Notes d'utilisation:**

- Pour rester en conformité avec la réglementation nationale européenne en matière d'utilisation du spectre, des limites de fréquence et de canal seront appliquées aux produits selon le pays où l'équipement sera déployé.
- Cet appareil ne peut pas utiliser le mode Ad-hoc lorsqu'il fonctionne dans la bande de 5 GHz. Le mode Adhoc fournit une communication directe pair à pair entre deux périphériques clients sans point d'accès.
- Les points d'accès prendront en charge les fonctionnalités DFS (Dynamic Frequency Selection) et TPC (Transmit Power Control) au besoin lors du fonctionnement dans la bande de 5 GHz au sein de l'UE.
- Merci de vous référer au guide d'utilisation ou de la fiche technique afin de vérifier si votre produit utilise 2.4 GHz et/ou 5 GHz sans fil.

## **AVISO DE USO DE LA LAN DE RADIO INALÁMBRICA EN LA COMUNIDAD EUROPEA (SOLO PARA EL PRODUCTO INALÁMBRICO)**

- El uso de este dispositivo está restringido a interiores cuando funciona en la Comunidad Europea utilizando canales en la banda de 5,15-5,35 GHz, para reducir la posibilidad de interferencias.
- Este dispositivo es un sistema de transmisión (transceptor) de banda ancha de 2,4 GHz, pensado para su uso en todos los estados miembros de la UE y en los países de la AELC. Este equipo se puede utilizar en AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

### **Notas de uso:**

- Para seguir cumpliendo las normas europeas de uso del espectro nacional, se aplicarán limitaciones de frecuencia y canal en los productos en función del país en el que se pondrá en funcionamiento el equipo.
- Este dispositivo tiene restringido el funcionamiento en modo Ad-hoc mientras funcione a 5 Ghz. El modo Ad-hoc es la comunicación directa de igual a igual entre dos dispositivos cliente sin un punto de acceso.
- Los puntos de acceso admitirán la funcionalidad DFS (Selección de frecuencia dinámica) y TPC (Control de la potencia de transmisión) si es necesario cuando funcionan a 5 Ghz dentro de la UE.
- Por favor compruebe el manual o la ficha de producto para comprobar si el producto utiliza las bandas inalámbricas de 2.4 GHz y/o la de 5 GHz.

### **AVVISO PER L'USO DI LAN RADIO WIRELESS NELLA COMUNITÀ EUROPEA (SOLO PER PRODOTTI WIRELESS)**

- Nella Comunità europea, l'uso di questo dispositivo è limitato esclusivamente agli ambienti interni sui canali compresi nella banda da 5,15 a 5,35 GHz al fine di ridurre potenziali interferenze. Questo dispositivo è un sistema di trasmissione a banda larga a 2,4 GHz (ricetrasmittente), destinato all'uso in tutti gli stati membri dell'Unione europea e nei paesi EFTA.
- Questo dispositivo può essere utilizzato in AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

#### **Note per l'uso**

- Al fine di mantenere la conformità alle normative nazionali europee per l'uso dello spettro di frequenze, saranno applicate limitazioni sulle frequenze e sui canali per il prodotto in conformità alle normative del paese in cui il dispositivo viene utilizzato.
- Questo dispositivo non può essere attivato in modalità Ad-hoc durante il funzionamento a 5 GHz. La modalità Ad-hoc è una comunicazione diretta peer-to-peer fra due dispositivi client senza un punto di accesso.
- I punti di accesso supportano le funzionalità DFS (Dynamic Frequency Selection) e TPC (Transmit Power Control) richieste per operare a 5 GHz nell'Unione europea.
- Ti invitiamo a fare riferimento al manuale del prodotto o alla scheda tecnica per verificare se il tuo prodotto utilizza le frequenze 2,4 GHz e/o 5 GHz.

### **KENNISGEVING VAN DRAADLOOS RADIO LAN-GEbruik IN DE EUROPESE GEMEENSCHAP (ALLEEN VOOR DRAADLOOS PRODUCT)**

- Dit toestel is beperkt tot gebruik binnenshuis wanneer het wordt gebruikt in de Europese Gemeenschap gebruik makend van kanalen in de 5.15-5.35 GHz band om de kans op interferentie te beperken.
- Dit toestel is een 2.4 GHz breedband transmissiesysteem (transceiver) dat bedoeld is voor gebruik in alle EU lidstaten en EFTA landen. Deze uitrusting mag gebruikt worden in AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

#### **Gebruiksaanwijzingen:**

- Om de gebruiksvoorschriften van het Europese Nationale spectrum na te leven, zullen frequentie- en kanaalbeperkingen worden toegepast op de producten volgens het land waar de uitrusting gebruikt zal worden.
- Dit toestel kan niet functioneren in Ad-hoc mode wanneer het gebruikt wordt in 5 GHz. Ad-hoc mode is directe peer-to-peer communicatie tussen twee klantenapparaten zonder een toegangspunt.
- Toegangspunten ondersteunen DFS (Dynamic Frequency Selection) en TPC (Transmit Power Control) functionaliteit zoals vereist bij gebruik in 5 GHz binnen de EU.
- Raadpleeg de handleiding of de datasheet om te controleren of uw product gebruik maakt van 2.4 GHz en/of 5 GHz.

## **SAFETY INSTRUCTIONS**

The following general safety guidelines are provided to help ensure your own personal safety and protect your product from potential damage. Remember to consult the product user instructions for more details.

- Static electricity can be harmful to electronic components. Discharge static electricity from your body (i.e. touching grounded bare metal) before touching the product.
- Do not attempt to service the product and never disassemble the product. For some products with a user replaceable battery, please read and follow the instructions in the user manual.
- Do not spill food or liquid on your product and never push any objects into the openings of your product.
- Do not use this product near water, areas with high humidity, or condensation unless the product is specifically rated for outdoor application.
- Keep the product away from radiators and other heat sources.
- Always unplug the product from mains power before cleaning and use a dry lint free cloth only.

## **SICHERHEITSVORSCHRIFTEN**

Die folgenden allgemeinen Sicherheitsvorschriften dienen als Hilfe zur Gewährleistung Ihrer eigenen Sicherheit und zum Schutz Ihres Produkts. Weitere Details finden Sie in den Benutzeranleitungen zum Produkt.

- Statische Elektrizität kann elektronischen Komponenten schaden. Um Schäden durch statische Aufladung zu vermeiden, leiten Sie elektrostatische Ladungen von Ihrem Körper ab, (z. B. durch Berühren eines geerdeten blanken Metallteils), bevor Sie das Produkt berühren.
- Unterlassen Sie jeden Versuch, das Produkt zu warten, und versuchen Sie nicht, es in seine Bestandteile zu zerlegen. Für einige Produkte mit austauschbaren Akkus lesen Sie bitte das Benutzerhandbuch und befolgen Sie die dort beschriebenen Anleitungen.
- Vermeiden Sie, dass Speisen oder Flüssigkeiten auf Ihr Produkt gelangen, und stecken Sie keine Gegenstände in die Gehäuseschlitze oder -öffnungen Ihres Produkts.
- Verwenden Sie dieses Produkt nicht in unmittelbarer Nähe von Wasser und nicht in Bereichen mit hoher Luftfeuchtigkeit oder Kondensation, es sei denn, es ist speziell zur Nutzung in Außenbereichen vorgesehen und eingestuft.
- Halten Sie das Produkt von Heizkörpern und anderen Quellen fern, die Wärme erzeugen.
- Trennen Sie das Produkt immer von der Stromzufuhr, bevor Sie es reinigen und verwenden Sie dazu ausschließlich ein trockenes fusselfreies Tuch.

## **CONSIGNES DE SÉCURITÉ**

Les consignes générales de sécurité ci-après sont fournies afin d'assurer votre sécurité personnelle et de protéger le produit d'éventuels dommages. Veuillez consulter les consignes d'utilisation du produit pour plus de détails.

- L'électricité statique peut endommager les composants électroniques. Déchargez l'électricité statique de votre corps (en touchant un objet en métal relié à la terre par exemple) avant de toucher le produit.
- N'essayez pas d'intervenir sur le produit et ne le démontez jamais. Pour certains produits contenant une batterie remplaçable par l'utilisateur, veuillez lire et suivre les consignes contenues dans le manuel d'utilisation.
- Ne renversez pas d'aliments ou de liquide sur le produit et n'insérez jamais d'objets dans les orifices.
- N'utilisez pas ce produit à proximité d'un point d'eau, de zones très humides ou de condensation sauf si le produit a été spécifiquement conçu pour une application extérieure.
- Éloignez le produit des radiateurs et autres sources de chaleur.
- Débranchez toujours le produit de l'alimentation avant de le nettoyer et utilisez uniquement un chiffon sec non pelucheux.

## **INSTRUCCIONES DE SEGURIDAD**

Las siguientes directrices de seguridad general se facilitan para ayudarle a garantizar su propia seguridad personal y para proteger el producto frente a posibles daños. No olvide consultar las instrucciones del usuario del producto para obtener más información.

- La electricidad estática puede resultar nociva para los componentes electrónicos. Descargue la electricidad estática de su cuerpo (p. ej., tocando algún metal sin revestimiento conectado a tierra) antes de tocar el producto.
- No intente realizar el mantenimiento del producto ni lo desmonte nunca. Para algunos productos con batería reemplazable por el usuario, lea y siga las instrucciones del manual de usuario.
- No derrame comida o líquidos sobre el producto y nunca deje que caigan objetos en las aberturas del mismo.
- No utilice este producto cerca del agua, en zonas con humedad o condensación elevadas a menos que el producto esté clasificado específicamente para aplicación en exteriores.
- Mantenga el producto alejado de los radiadores y de otras fuentes de calor.
- Desenchufe siempre el producto de la alimentación de red antes de limpiarlo y utilice solo un paño seco sin pelusa.

## **ISTRUZIONI PER LA SICUREZZA**

Le seguenti linee guida sulla sicurezza sono fornite per contribuire a garantire la sicurezza personale degli utenti e a proteggere il prodotto da potenziali danni. Per maggiori dettagli, consultare le istruzioni per l'utente del prodotto.

- L'elettricità statica può essere pericolosa per i componenti elettronici. Scaricare l'elettricità statica dal corpo (ad esempio toccando una parte metallica collegata a terra) prima di toccare il prodotto.
- Non cercare di riparare il prodotto e non smontarlo mai. Per alcuni prodotti dotati di batteria sostituibile dall'utente, leggere e seguire le istruzioni riportate nel manuale dell'utente.
- Non versare cibi o liquidi sul prodotto e non spingere mai alcun oggetto nelle aperture del prodotto.
- Non usare questo prodotto vicino all'acqua, in aree con elevato grado di umidità o soggette a condensa a meno che il prodotto non sia specificatamente approvato per uso in ambienti esterni.
- Tenere il prodotto lontano da caloriferi e altre fonti di calore.
- Scollegare sempre il prodotto dalla presa elettrica prima di pulirlo e usare solo un panno asciutto che non lasci filacce.

## **VEILIGHEIDSINFORMATIE**

De volgende algemene veiligheidsinformatie werd verstrekt om uw eigen persoonlijke veiligheid te waarborgen en uw product te beschermen tegen mogelijke schade. Denk eraan om de gebruikersinstructies van het product te raadplegen voor meer informatie.

- Statische elektriciteit kan schadelijk zijn voor elektronische componenten. Ontlaad de statische elektriciteit van uw lichaam (d.w.z. het aanraken van geaard bloot metaal) voordat u het product aanraakt.
- U mag nooit proberen het product te onderhouden en u mag het product nooit demonteren. Voor sommige producten met door de gebruiker te vervangen batterij, dient u de instructies in de gebruikershandleiding te lezen en te volgen.
- Mors geen voedsel of vloeistof op uw product en u mag nooit voorwerpen in de openingen van uw product duwen.
- Gebruik dit product niet in de buurt van water, gebieden met hoge vochtigheid of condensatie, tenzij het product specifiek geclassificeerd is voor gebruik buitenshuis.
- Houd het product uit de buurt van radiators en andere warmtebronnen.
- U dient het product steeds los te koppelen van de stroom voordat u het reinigt en gebruik uitsluitend een droge pluisvrije doek.



## Disposing of and Recycling Your Product

### ENGLISH

EN



This symbol on the product or packaging means that according to local laws and regulations this product should be not be disposed of in household waste but sent for recycling. Please take it to a collection point designated by your local authorities once it has reached the end of its life, some will accept products for free. By recycling the product and its packaging in this manner you help to conserve the environment and protect human health.

### D-Link and the Environment

At D-Link, we understand and are committed to reducing any impact our operations and products may have on the environment. To minimise this impact D-Link designs and builds its products to be as environmentally friendly as possible, by using recyclable, low toxic materials in both products and packaging.

D-Link recommends that you always switch off or unplug your D-Link products when they are not in use. By doing so you will help to save energy and reduce CO2 emissions.

To learn more about our environmentally responsible products and packaging please visit [www.dlinkgreen.com](http://www.dlinkgreen.com).

### DEUTSCH

DE



Dieses Symbol auf dem Produkt oder der Verpackung weist darauf hin, dass dieses Produkt gemäß bestehender örtlicher Gesetze und Vorschriften nicht über den normalen Hausmüll entsorgt werden sollte, sondern einer Wiederverwertung zuzuführen ist. Bringen Sie es bitte zu einer von Ihrer Kommunalbehörde entsprechend amtlich ausgewiesenen Sammelstelle, sobald das Produkt das Ende seiner Nutzungsdauer erreicht hat. Für die Annahme solcher Produkte erheben einige dieser Stellen keine Gebühren. Durch ein auf diese Weise durchgeführtes Recycling des Produkts und seiner Verpackung helfen Sie, die Umwelt zu schonen und die menschliche Gesundheit zu schützen.

### D-Link und die Umwelt

D-Link ist sich den möglichen Auswirkungen seiner Geschäftstätigkeiten und seiner Produkte auf die Umwelt bewusst und fühlt sich verpflichtet, diese entsprechend zu mindern. Zu diesem Zweck entwickelt und stellt D-Link seine Produkte mit dem Ziel größtmöglicher Umweltfreundlichkeit her und verwendet wiederverwertbare, schadstoffarme Materialien bei Produktherstellung und Verpackung.

D-Link empfiehlt, Ihre Produkte von D-Link, wenn nicht in Gebrauch, immer auszuschalten oder vom Netz zu nehmen. Auf diese Weise helfen Sie, Energie zu sparen und CO2-Emissionen zu reduzieren.

Wenn Sie mehr über unsere umweltgerechten Produkte und Verpackungen wissen möchten, finden Sie entsprechende Informationen im Internet unter [www.dlinkgreen.com](http://www.dlinkgreen.com).

**FRANÇAIS****FR**

Ce symbole apposé sur le produit ou son emballage signifie que, conformément aux lois et réglementations locales, ce produit ne doit pas être éliminé avec les déchets domestiques mais recyclé. Veuillez le rapporter à un point de collecte prévu à cet effet par les autorités locales; certains accepteront vos produits gratuitement. En recyclant le produit et son emballage de cette manière, vous aidez à préserver l'environnement et à protéger la santé de l'homme.

**D-Link et l'environnement**

Chez D-Link, nous sommes conscients de l'impact de nos opérations et produits sur l'environnement et nous engageons à le réduire. Pour limiter cet impact, D-Link conçoit et fabrique ses produits de manière aussi écologique que possible, en utilisant des matériaux recyclables et faiblement toxiques, tant dans ses produits que ses emballages.

D-Link recommande de toujours éteindre ou débrancher vos produits D-Link lorsque vous ne les utilisez pas. Vous réaliserez ainsi des économies d'énergie et réduirez vos émissions de CO<sub>2</sub>.

Pour en savoir plus sur les produits et emballages respectueux de l'environnement, veuillez consulter le [www.dlinkgreen.com](http://www.dlinkgreen.com).

**ESPAÑOL****ES**

Este símbolo en el producto o el embalaje significa que, de acuerdo con la legislación y la normativa local, este producto no se debe desechar en la basura doméstica sino que se debe reciclar. Llévelo a un punto de recogida designado por las autoridades locales una vez que ha llegado al fin de su vida útil; algunos de ellos aceptan recogerlos de forma gratuita. Al reciclar el producto y su embalaje de esta forma, contribuye a preservar el medio ambiente y a proteger la salud de los seres humanos.

**D-Link y el medio ambiente**

En D-Link, comprendemos y estamos comprometidos con la reducción del impacto que puedan tener nuestras actividades y nuestros productos en el medio ambiente. Para reducir este impacto, D-Link diseña y fabrica sus productos para que sean lo más ecológicos posible, utilizando materiales reciclables y de baja toxicidad tanto en los productos como en el embalaje.

D-Link recomienda apagar o desenchufar los productos D-Link cuando no se estén utilizando. Al hacerlo, contribuirá a ahorrar energía y a reducir las emisiones de CO<sub>2</sub>.

Para obtener más información acerca de nuestros productos y embalajes ecológicos, visite el sitio [www.dlinkgreen.com](http://www.dlinkgreen.com).

**ITALIANO****IT**

La presenza di questo simbolo sul prodotto o sulla confezione del prodotto indica che, in conformità alle leggi e alle normative locali, questo prodotto non deve essere smaltito nei rifiuti domestici, ma avviato al riciclo. Una volta terminato il ciclo di vita utile, portare il prodotto presso un punto di raccolta indicato dalle autorità locali. Alcuni questi punti di raccolta accettano gratuitamente i prodotti da riciclare. Scegliendo di riciclare il prodotto e il relativo imballaggio, si contribuirà a preservare l'ambiente e a salvaguardare la salute umana.

**D-Link e l'ambiente**

D-Link cerca da sempre di ridurre l'impatto ambientale dei propri stabilimenti e dei propri prodotti. Allo scopo di ridurre al minimo tale impatto, D-Link progetta e realizza i propri prodotti in modo che rispettino il più possibile l'ambiente, utilizzando materiali riciclabili a basso tasso di tossicità sia per i prodotti che per gli imballaggi.

D-Link raccomanda di spegnere sempre i prodotti D-Link o di scollegarne la spina quando non vengono utilizzati. In questo modo si contribuirà a risparmiare energia e a ridurre le emissioni di anidride carbonica.

Per ulteriori informazioni sui prodotti e sugli imballaggi D-Link a ridotto impatto ambientale, visitate il sito all'indirizzo [www.dlinkgreen.com](http://www.dlinkgreen.com).

**NEDERLANDS****NL**

Dit symbool op het product of de verpakking betekent dat dit product volgens de plaatselijke wetgeving niet mag worden weggegooid met het huishoudelijk afval, maar voor recyclage moeten worden ingeleverd. Zodra het product het einde van de levensduur heeft bereikt, dient u het naar een inzamelpunt te brengen dat hiertoe werd aangeduid door uw plaatselijke autoriteiten, sommige autoriteiten accepteren producten zonder dat u hiervoor dient te betalen. Door het product en de verpakking op deze manier te recyclen helpt u het milieu en de gezondheid van de mens te beschermen.

**D-Link en het milieu**

Bij D-Link spannen we ons in om de impact van onze handelingen en producten op het milieu te beperken. Om deze impact te beperken, ontwerpt en bouwt D-Link zijn producten zo milieuvriendelijk mogelijk, door het gebruik van recycleerbare producten met lage toxiciteit in product en verpakking.

D-Link raadt aan om steeds uw D-Link producten uit te schakelen of uit de stekker te halen wanneer u ze niet gebruikt. Door dit te doen bespaart u energie en beperkt u de CO<sub>2</sub>-emissies.

Breng een bezoek aan [www.dlinkgreen.com](http://www.dlinkgreen.com) voor meer informatie over onze milieuverantwoorde producten en verpakkingen.

**POLSKI****PL**

Ten symbol umieszczony na produkcie lub opakowaniu oznacza, że zgodnie z miejscowym prawem i lokalnymi przepisami niniejszego produktu nie wolno wyrzucać jak odpady czy śmieci z gospodarstwa domowego, lecz należy go poddać procesowi recyklingu. Po zakończeniu użytkowania produktu, niektóre odpowiednie do tego celu podmioty przyjmą takie produkty nieodpłatnie, dlatego prosimy dostarczyć go do punktu zbiórki wskazanego przez lokalne władze. Poprzez proces recyklingu i dzięki takiemu postępowaniu z produktem oraz jego opakowaniem, pomogą Państwo chronić środowisko naturalne i dbać o ludzkie zdrowie.

**D-Link i środowisko**

D-Link podchodzimy w sposób świadomy do ochrony otoczenia oraz jesteśmy zaangażowani w zmniejszanie wpływu naszych działań i produktów na środowisko naturalne. W celu zminimalizowania takiego wpływu firma D-Link konstruuje i wytwarza swoje produkty w taki sposób, aby były one jak najbardziej przyjazne środowisku, stosując do tych celów materiały nadające się do powtórnego wykorzystania, charakteryzujące się małą toksycznością zarówno w przypadku samych produktów jak i opakowań.

Firma D-Link zaleca, aby Państwo zawsze prawidłowo wyłączali z użytku swoje produkty D-Link, gdy nie są one wykorzystywane. Postępując w ten sposób pozwalają Państwo oszczędzać energię i zmniejszać emisje CO<sub>2</sub>.

Aby dowiedzieć się więcej na temat produktów i opakowań mających wpływ na środowisko prosimy zapoznać się ze stroną Internetową [www.dlinkgreen.com](http://www.dlinkgreen.com).

**ČESKY****CZ**

Tento symbol na výrobku nebo jeho obalu znamená, že podle místně platných předpisů se výrobek nesmí vyhazovat do komunálního odpadu, ale odeslat k recyklaci. Až výrobek doslouží, odneste jej prosím na sběrné místo určené místními úřady k tomuto účelu. Někteřá sběrná místa přijímají výrobky zdarma. Recyklací výrobku i obalu pomáháte chránit životní prostředí i lidské zdraví.

**D-Link a životní prostředí**

Ve společnosti D-Link jsme si vědomi vlivu našich provozů a výrobků na životní prostředí a snažíme se o minimalizaci těchto vlivů. Proto své výrobky navrhujeme a vyrábíme tak, aby byly co nejekologičtější, a ve výrobcích i obalech používáme recyklovatelné a nízkotoxické materiály.

Společnost D-Link doporučuje, abyste své výrobky značky D-Link vypnuli nebo vytáhli ze zásuvky vždy, když je nepoužíváte. Pomůžete tak šetřit energii a snížit emise CO<sub>2</sub>.

Více informací o našich ekologických výrobcích a obalech najdete na adrese [www.dlinkgreen.com](http://www.dlinkgreen.com).

**MAGYAR****HU**

Ez a szimbólum a terméken vagy a csomagoláson azt jelenti, hogy a helyi törvényeknek és szabályoknak megfelelően ez a termék nem semmisíthető meg a háztartási hulladékkal együtt, hanem újrahasznosításra kell küldeni. Kérjük, hogy a termék élettartamának elteltét követően vigye azt a helyi hatóság által kijelölt gyűjtőhelyre. A termékek egyes helyeken ingyen elhelyezhetők. A termék és a csomagolás újrahasznosításával segíti védeni a környezetet és az emberek egészségét.

**A D-Link és a környezet**

A D-Linknél megértjük és elköteleztük magunkat a műveleteink és termékeink környezetre gyakorolt hatásainak csökkentésére. Az ezen hatás csökkentése érdekében a D-Link a lehető leginkább környezetbarát termékeket tervez és gyárt azáltal, hogy újrahasznosítható, alacsony károsanyag-tartalmú termékeket gyárt és csomagolásokat alkalmaz.

A D-Link azt javasolja, hogy mindig kapcsolja ki vagy húzza ki a D-Link termékeket a tápforrásból, ha nem használja azokat. Ezzel segít az energia megtakarításában és a széndioxid kibocsátásának csökkentésében.

Környezetbarát termékeinkről és csomagolásainkról további információkat a [www.dlinkgreen.com](http://www.dlinkgreen.com) weboldalon tudhat meg.

**NORSK****NO**

Dette symbolet på produktet eller forpakningen betyr at dette produktet ifølge lokale lover og forskrifter ikke skal kastes sammen med husholdningsavfall, men leveres inn til gjenvinning. Vennligst ta det til et innsamlingssted anvist av lokale myndigheter når det er kommet til slutten av levetiden. Noen steder aksepteres produkter uten avgift. Ved på denne måten å gjenvinne produktet og forpakningen hjelper du å verne miljøet og beskytte folks helse.

**D-Link og miljøet**

Hos D-Link forstår vi oss på og er forpliktet til å minske innvirkningen som vår drift og våre produkter kan ha på miljøet. For å minimalisere denne innvirkningen designer og lager D-Link produkter som er så miljøvennlig som mulig, ved å bruke resirkulerbare, lav-toksiske materialer både i produktene og forpakningen.

D-Link anbefaler at du alltid slår av eller frakobler D-Link-produkter når de ikke er i bruk. Ved å gjøre dette hjelper du å spare energi og å redusere CO2-utslipp.

For mer informasjon angående våre miljøansvarlige produkter og forpakninger kan du gå til [www.dlinkgreen.com](http://www.dlinkgreen.com).

**DANSK****DK**

Dette symbol på produktet eller emballagen betyder, at dette produkt i henhold til lokale love og regler ikke må bortskaffes som husholdningsaffald, mens skal sendes til genbrug. Indlever produktet til et indsamlingssted som angivet af de lokale myndigheder, når det er nået til slutningen af dets levetid. I nogle tilfælde vil produktet blive modtaget gratis. Ved at indlevere produktet og dets emballage til genbrug på denne måde bidrager du til at beskytte miljøet og den menneskelige sundhed.

**D-Link og miljøet**

Hos D-Link forstår vi og bestræber os på at reducere enhver indvirkning, som vores aktiviteter og produkter kan have på miljøet. For at minimere denne indvirkning designer og producerer D-Link sine produkter, så de er så miljøvenlige som muligt, ved at bruge genanvendelige materialer med lavt giftighedsniveau i både produkter og emballage.

D-Link anbefaler, at du altid slukker eller frakobler dine D-Link-produkter, når de ikke er i brug. Ved at gøre det bidrager du til at spare energi og reducere CO<sub>2</sub>-udledningerne.

Du kan finde flere oplysninger om vores miljømæssigt ansvarlige produkter og emballage på [www.dlinkgreen.com](http://www.dlinkgreen.com).

**SUOMI****FI**

Tämä symboli tuotteen pakkauksessa tarkoittaa, että paikallisten lakien ja säännösten mukaisesti tätä tuotetta ei pidä hävittää yleisen kotitalousjätteen seassa vaan se tulee toimittaa kierrätettäväksi. Kun tuote on elinkaarensa päässä, toimita se lähimpään viranomaisten hyväksymään kierrätyspisteeseen. Kierrättämällä käytetyn tuotteen ja sen pakkauksen autat tukemaan sekä ympäristön että ihmisten terveyttä ja hyvinvointia.

**D-Link ja ympäristö**

D-Link ymmärtää ympäristönsuojelun tärkeyden ja on sitoutunut vähentämään tuotteistaan ja niiden valmistuksesta ympäristölle mahdollisesti aiheutuvia haittavaikutuksia. Nämä negatiiviset vaikutukset minimoidakseen D-Link suunnittelee ja valmistaa tuotteensa mahdollisimman ympäristöystävällisiksi käyttämällä kierrätettäviä, alhaisia pitoisuuksia haitallisia aineita sisältäviä materiaaleja sekä tuotteissaan että niiden pakkauksissa.

Suosittellemme, että irrotat D-Link-tuotteesi virtalähteestä tai sammutat ne aina, kun ne eivät ole käytössä. Toimimalla näin autat säästämään energiaa ja vähentämään hiilidioksiidipäästöjä.

Lue lisää ympäristöystävällisistä D-Link-tuotteista ja pakkauksistamme osoitteesta [www.dlinkgreen.com](http://www.dlinkgreen.com).

**SVENSKA****SE**

Den här symbolen på produkten eller förpackningen betyder att produkten enligt lokala lagar och föreskrifter inte skall kastas i hushållssoporna utan i stället återvinnas. Ta den vid slutet av dess livslängd till en av din lokala myndighet utsedd uppsamlingsplats, vissa accepterar produkter utan kostnad. Genom att på detta sätt återvinna produkten och förpackningen hjälper du till att bevara miljön och skydda människors hälsa.

**D-Link och miljön**

På D-Link förstår vi och är fast beslutna att minska den påverkan våra verksamheter och produkter kan ha på miljön. För att minska denna påverkan utformar och bygger D-Link sina produkter för att de ska vara så miljövänliga som möjligt, genom att använda återvinningsbara material med låg gifthalt i både produkter och förpackningar.

D-Link rekommenderar att du alltid stänger av eller kopplar ur dina D-Link produkter när du inte använder dem. Genom att göra detta hjälper du till att spara energi och minska utsläpp av koldioxid.

För mer information om våra miljöansvariga produkter och förpackningar [www.dlinkgreen.com](http://www.dlinkgreen.com).

**PORTUGUÊS****PT**

Este símbolo no produto ou embalagem significa que, de acordo com as leis e regulamentações locais, este produto não deverá ser eliminado juntamente com o lixo doméstico mas enviado para a reciclagem. Transporte-o para um ponto de recolha designado pelas suas autoridades locais quando este tiver atingido o fim da sua vida útil, alguns destes pontos aceitam produtos gratuitamente. Ao reciclar o produto e respectiva embalagem desta forma, ajuda a preservar o ambiente e protege a saúde humana.

**A D-Link e o ambiente**

Na D-Link compreendemos e comprometemo-nos com a redução do impacto que as nossas operações e produtos possam ter no ambiente. Para minimizar este impacto a D-Link concebe e constrói os seus produtos para que estes sejam o mais inofensivos para o ambiente possível, utilizando materiais recicláveis e não tóxicos tanto nos produtos como nas embalagens.

A D-Link recomenda que desligue os seus produtos D-Link quando estes não se encontrarem em utilização. Com esta acção ajudará a poupar energia e reduzir as emissões de CO<sub>2</sub>.

Para saber mais sobre os nossos produtos e embalagens responsáveis a nível ambiental visite [www.dlinkgreen.com](http://www.dlinkgreen.com).