



**User Manual**

**Wireless AC1200  
4G LTE Router**

# Package Contents



DWR-961 Wireless AC1200 4G LTE Router



Power Adapter



4G Antennas



RJ-45 Cable

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

# System Requirements

- A compatible SIM/UICC card with service.\*
- Computer with Windows 10/8/7/Vista/XP, Mac OS 10.3 or above, or Linux-based operating system with a compatible network adapter.
- Java-enabled browser such as Internet Explorer 9, Safari 7, Chrome 28, or Firefox 23 or above (for configuration).

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

# Introduction

D-Link's DWR-961 4G LTE Router allows you to access mobile broadband networks from anywhere. Once connected, you can check e-mail, surf the web, and stream media. Use your carrier's SIM/UICC card to share your 4G Internet connection through a secure wireless network or by using any of the four 10/100 Ethernet ports.

The DWR-961 lets you connect to your 4G mobile connection with fast downlink speeds of up to 100 Mbps and uplink speeds up to 50 Mbps, giving you the speed to ensure fast, responsive Internet access. Surf the web with ease and stream music and video over the Internet to your PCs and mobile devices.

The DWR-961 utilizes dual-active firewalls (SPI and NAT) to prevent potential attacks across the Internet. Industry standard WPA/WPA2 wireless encryption keeps your wireless network secure and your traffic safe, allowing you to share your 4G connection without worrying about unauthorized users accessing your network.

The DWR-961 can be installed quickly and easily almost anywhere. It can be configured through almost any web browser without the need for special software. This router makes it possible to stay connected, even when conventional broadband services are unavailable.

# Wireless Installation Considerations

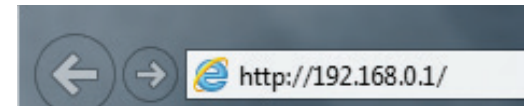
The DWR-961 can be accessed using a wireless connection from anywhere within the operating range of your wireless network. Keep in mind that the quantity, thickness, and location of walls, ceilings, or other objects that the wireless signals must pass through may limit the range of the wireless signal. 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 1.5 feet thick (0.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle it looks over 42 feet (14 meters) thick. Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
3. 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

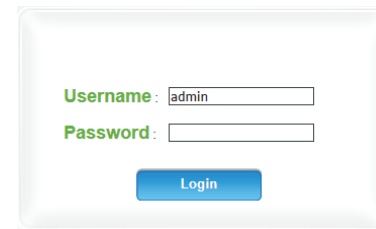
## Getting Started

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 left 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.



# 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 your ISP 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', 'My Internet Connection is' is set to 'Dynamic IP (DHCP)'. The 'Dynamic IP (DHCP) Internet Connection Type' section contains the following fields: Host Name, Primary DNS Server, Secondary DNS Server, MTU (0 bytes), MAC Address (with a Clone button), Reconnect Mode (checked), and NAT disable (unchecked). At the bottom, there are Apply and Refresh buttons.

**Reconnect Mode:** 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 firewall function of the DWR-961, exposing all connected devices directly to the Internet. This is an advanced feature and not recommended for normal use.

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

The screenshot displays the D-Link WAN Service Configuration 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 is set to English, and there are Logout and Refresh buttons. A sidebar on the left lists navigation options: WAN Service, Wizard, Multi-WAN, and IPv6. The main content area is titled 'WAN Service Configuration' and includes the following sections:

- Internet Connection Type:** A dropdown menu showing 'Dynamic IP (DHCP)'.
- Dynamic IP (DHCP) Internet Connection Type:** A section with input fields for Host Name, Primary DNS Server, and Secondary DNS Server. The MTU field is set to 0 (bytes). There is a 'Clone' button next to the MAC Address field.
- Reconnect Mode:** A checkbox that is checked and labeled 'Enable'.
- NAT disable:** A checkbox that is unchecked and labeled 'Enable'.

At the bottom of the configuration area, there are 'Apply' and 'Refresh' buttons. A copyright notice 'Copyright © 2012. All Rights Reserved' is located at the bottom right of the page.

## 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 firewall function of the DWR-961, exposing all connected devices directly to the Internet. This is an advanced feature and not recommended for normal use.

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', a dropdown menu is set to 'Static IP'. Below this, the 'Static IP Address Internet Connection Type' section contains several input fields: IP Address, Subnet Mask, Default Gateway, Primary DNS Server, Secondary DNS Server, and MTU (set to 0 bytes). There is also a MAC Address field and a 'Clone' button. At the bottom of the configuration area, there are 'Apply' and 'Refresh' buttons.



## PPPoE (Username / Password)

**Username:** The username provided by your ISP for your PPPoE account.

**Password:** Password provided by your ISP for your PPPoE account.

**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.

**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.

The screenshot shows the D-Link router's web 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" and is divided into two sections: "Internet Connection Type" and "PPPoE".

In the "Internet Connection Type" section, "My Internet Connection is" is set to "PPPoE (Username / Password)".

The "PPPoE" section contains the following fields and options:

- Username: [Text Input]
- Password: [Text Input]
- Verify Password: [Text Input]
- Service Name: [Text Input] (optional)
- IP Address: [Text Input]
- Primary DNS Server: [Text Input] (optional)
- Secondary DNS Server: [Text Input] (optional)
- MAC Address: [Text Input] [Clone Button]
- Reconnect Mode:  Always-on  Connect-on-demand  Manual
- Maximum Idle Time: 300 seconds
- MTU: 0 (bytes)
- NAT disable:  Enable

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

**NAT disable:** Enabling this option will disable the NAT firewall function of the DWR-961, exposing all connected devices directly to the Internet. This is an advanced feature and not recommended for normal use.

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, a menu with icons for Home, Internet, Wi-Fi, LAN, Advanced, and System, and a language dropdown set to English. A sidebar on the left lists navigation options: WAN Service, Wizard, Multi-WAN, and IPv6. The main content area is titled "WAN Service Configuration" and features the following settings:

- Internet Connection Type:** A dropdown menu showing "PPPoE (Username / Password)".
- PPPoE Section:**
  - Username: [Text Input]
  - Password: [Text Input]
  - Verify Password: [Text Input]
  - Service Name: [Text Input] (optional)
  - IP Address: [Text Input]
  - Primary DNS Server: [Text Input] (optional)
  - Secondary DNS Server: [Text Input] (optional)
  - MAC Address: [Text Input]
- Reconnect Mode:** Radio buttons for "Always-on" (selected), "Connect-on-demand", and "Manual".
- Maximum Idle Time:** A spinner box set to "300" seconds.
- MTU:** A spinner box set to "0" (bytes).
- NAT disable:** A checkbox labeled "Enable".

At the bottom of the configuration area are two buttons: "Apply" and "Refresh". A "Clone" button is also present next to the MAC Address field.

## PPTP

**Address Mode:** Choose **Static IP** only if your ISP provides you with a static IP address for PPTP. 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 the 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 navigation bar 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, Multi-WAN, and IPv6. 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" field is empty. The "PPTP Subnet Mask" field is empty. The "PPTP Gateway IP Address" field is empty. The "PPTP Server IP Address" field is empty. The "Username" field is empty. The "Password" field is empty. The "Verify Password" field is empty. The "Reconnect Mode" is set to "Always-on". The "Maximum Idle Time" is set to "300 seconds". The "NAT disable" checkbox is unchecked. There are "Apply" and "Refresh" buttons at the bottom.

**NAT disable:** Enabling this option will disable the NAT firewall function of the DWR-961, exposing all connected devices directly to the Internet. This is an advanced feature and not recommended for normal use.

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

The screenshot displays 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 language dropdown is set to English, and there are Logout and Refresh buttons. The left sidebar shows the WAN Service menu with options for Wizard, Multi-WAN, and IPv6. The main content area is titled 'WAN Service Configuration' and contains the following settings:

- Internet Connection Type:** My Internet Connection is PPTP (Username / Password)
- PPTP:**
  - Address Mode:  Dynamic IP  Static IP
  - PPTP IP Address: [Text Field]
  - PPTP Subnet Mask: [Text Field]
  - PPTP Gateway IP Address: [Text Field]
  - PPTP Server IP Address: [Text Field]
  - Username: [Text Field]
  - Password: [Text Field]
  - Verify Password: [Text Field]
  - Reconnect Mode:  Always-on  Connect-on-demand  Manual
  - Maximum Idle Time: 300 seconds
  - NAT disable:  Enable

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

## 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 the 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 '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. The 'Verify Password' field is empty. The 'Reconnect Mode' is set to 'Always-on'. The 'Maximum Idle Time' is set to '300 seconds'. The 'NAT disable' checkbox is unchecked. There are 'Apply' and 'Refresh' buttons at the bottom of the configuration area.

**NAT disable:** Enabling this option will disable the NAT firewall function of the DWR-961, exposing all connected devices directly to the Internet. This is an advanced feature and not recommended for normal use.

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

The screenshot displays 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. The main content area is titled 'WAN Service Configuration' and contains the following settings:

- Internet Connection Type:** My Internet Connection is set to L2TP (Username / Password).
- L2TP:**
  - Address Mode:  Dynamic IP  Static IP
  - L2TP IP Address: [Input field]
  - L2TP Subnet Mask: [Input field]
  - L2TP Gateway IP Address: [Input field]
  - L2TP Server IP Address: [Input field]
  - Username: [Input field]
  - Password: [Input field]
  - Verify Password: [Input field]
- Reconnect Mode:**  Always-on  Connect-on-demand  Manual
- Maximum Idle Time: 300 seconds
- NAT disable:  Enable

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

## 4G LTE

**Prefer Service Type:** Choose whether the DWR-961 should only use 4G networks, or use **Auto Mode** to automatically select a network.

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

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

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

**Dialed Number:** If your carrier provides a dial-in number or code, enter it here. Empty by default.

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

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

**Pin Code:** If your SIM card has a PIN code, enter it here

**Reconnect Mode:** Select **Auto**, **Manual**, or **Connect-on-demand** to determine whether the router should reconnect to your 4G network automatically or manually.

**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.

**Roaming:** Enabling this option will allow you to connect when roaming away from your carrier's home network.

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

The screenshot shows the D-Link web interface for WAN Service Configuration. The page title is "WAN Service Configuration". Under "Internet Connection Type", "My Internet Connection is" is set to "4G LTE /3G". The "4G LTE /3G Internet Connection Type" section includes the following fields and options:

- Prefer Service Type:** Auto Mode (dropdown)
- Username:** (text input, optional)
- Password:** (text input, optional)
- Verify Password:** (text input, optional)
- Dialed Number:** (text input)
- Authentication:** Auto (dropdown)
- APN:** internet (text input, optional) with a Reset button
- Pin Code:** (text input)
- Reconnect Mode:** Radio buttons for Auto (selected), Connect-on-demand, and Manual
- Maximum Idle Time:** 300 seconds
- Roaming:** Enable (checkbox, unchecked)
- Bridge ethernet ports:** Enable (checkbox, unchecked)
- NAT disable:** Enable (checkbox, unchecked)
- Transparent Bridge:** Enable (checkbox, unchecked)
- Radio Frequency:** On (radio, selected) / Off (radio, unselected)

At the bottom of the configuration area are "Apply" and "Refresh" buttons.

**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-961, 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 NAT Disable option will not be available

**Radio Frequency:** Turns the cellular radio on or off. This setting is intended to disable the cellular radio for areas where radio transmissions may be restricted.

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

The screenshot displays the 'WAN Service Configuration' page in the D-Link web interface. The 'Internet Connection Type' section is active, showing 'My Internet Connection is' set to '4G LTE /3G'. Under the '4G LTE /3G Internet Connection Type' section, the following settings are visible:

- Prefer Service Type: Auto Mode (dropdown)
- Username: (optional) (text input)
- Password: (optional) (text input)
- Verify Password: (optional) (text input)
- Dial Number: (text input)
- Authentication: Auto (dropdown)
- APN: internet (optional) (text input) with a Reset button
- Pin Code: (text input)
- Reconnect Mode:  Auto  Connect-on-demand  Manual
- Maximum Idle Time: 300 seconds
- Roaming:  Enable
- Bridge ethernet ports:  Enable
- NAT disable:  Enable
- Transparent Bridge:  Enable
- Radio Frequency:  On  Off

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



# 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-961 has a Multi-WAN Failover feature that allows the router to switch to a 4G connection if the WAN connection is down or unavailable. To configure this feature, please refer to **Multi-WAN Configuration on page 24**.

## WELCOME TO THE SETUP WIZARD

It appears that you have already successfully connected your new router to the Internet.

- Step 1: Configure your Internet Connection
- Step 2: Configure your Wi-Fi Security
- Step 3: Set your Password
- Step 4: Select your Time Zone
- Step 5: Save Settings and Connect

Prev Next Cancel Connect

## STEP 1: CONFIGURE YOUR INTERNET CONNECTION

Please select the Internet connection type below:

- 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.
- Username / Password Connection (PPPoE)**  
Choose this option if your Internet connection requires a username and password to get online. Most DSL modems use this type of connection.
- Username / Password Connection (PPTP)**  
PPTP client.
- Username / Password Connection (L2TP)**  
L2TP client.
- 4G LTE /3G Connection**  
4G LTE /3G.
- Static IP Address Connection**  
Choose this option if your Internet Setup Provider provided you with IP Address information that has to be manually configured.

Prev Next Cancel Connect

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

**DHCP Connection (Dynamic IP Address):** Choose this if your IPS 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.

**4G Connection:** Choose this connection if you have installed a SIM card into the DWR-961. See **4G LTE** 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).

**STEP 1: CONFIGURE YOUR INTERNET CONNECTION**

Please select the Internet connection type below:

- 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.
- Username / Password Connection (PPPoE)**  
Choose this option if your Internet connection requires a username and password to get online. Most DSL modems use this type of connection.
- Username / Password Connection (PPTP)**  
PPTP client.
- Username / Password Connection (L2TP)**  
L2TP client.
- 4G LTE /3G Connection**  
4G LTE /3G.
- Static IP Address Connection**  
Choose this option if your Internet Setup Provider provided you with IP Address information that has to be manually configured.

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

**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) :

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

**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, 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

**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.

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

**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 :

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.

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Create a new admin password and then click **Next** to continue. Users must enter this password to enter the setup utility.

**STEP 3: SET YOUR PASSWORD**

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

Password :

Verify Password :

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

**STEP 4: SELECT YOUR TIME ZONE**

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

Time Zone :

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

**SETUP COMPLETE!**

The Internet Connection Setup Wizard has completed. Click the Connect button to save your settings.

# Multi-WAN

The DWR-961'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 4G.

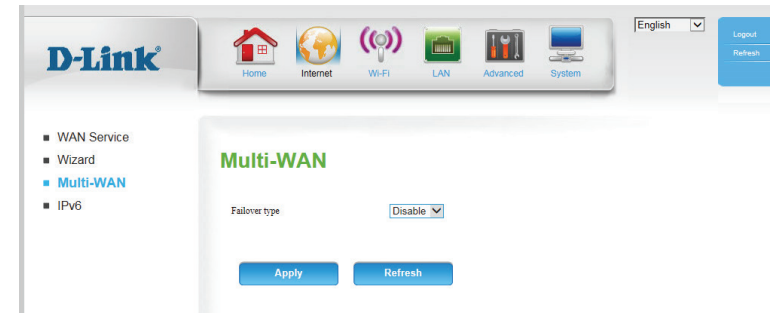
**Failover type:** Select **Failover** to enable the failover function.

**Remote Host for Keep Alive:** This option should be set to an external IP address that can be used to ensure that the 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.



# Multi-WAN Configuration

After selecting a secondary WAN and clicking apply, you will be directed to a setup screen for the relevant connection type.

## 4G LTE failover

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

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

**Verify Password:** Retype password if required above.

**Dialed Number:** If your ISP provides you with a dial-in number, enter it here. Empty by default.

**Authentication:** Select **PAP**, **CHAP** or **Auto** if requested by your carrier. The default authentication method is **Auto**.

**APN:** Enter the **APN** (Access Point Name) for your 4G connection.

**Reset:** Press **Reset** to restore your APN setting to factory default. This button leaves all other settings unchanged, including those on this page.

**Pin Code:** If your SIM/UICC card has a PIN, enter it here (optional).

### Radio

**Frequency:** Turns the cellular radio on or off. This setting is intended to disable the cellular radio for areas where radio transmissions may be restricted.

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

The screenshot shows the Multi-WAN configuration page. At the top, there is a navigation bar with icons for Home, Internet, Wi-Fi, LAN, Advanced, and System. Below this, the page title 'Multi-WAN' is displayed in green. The configuration form includes the following fields and options:

- Username:** Text input field with '(optional)' label.
- Password:** Text input field with '(optional)' label.
- Verify Password:** Text input field with '(optional)' label.
- Dialed Number:** Text input field.
- Authentication:** Dropdown menu set to 'Auto'.
- APN:** Text input field containing 'internet' with '(optional)' label and a 'Reset' button.
- Pin Code:** Text input field.
- Radio Frequency:** Radio buttons for 'On' (selected) and 'Off'.

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

## Static IP Address Failover

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

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

**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. Changing it is not recommended unless required to do so by your ISP. You can use the **Clone** button to replace the WAN port's MAC address with the MAC address of your PC.

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

The screenshot shows the 'Multi-WAN' configuration interface. Under the heading 'Static IP Address Internet Connection Type', there are several input fields: 'IP Address', 'Subnet Mask', 'Default Gateway', 'Primary DNS Server', 'Secondary DNS Server', 'MTU' (with a value of 0 and '(bytes)' next to it), and 'MAC Address'. A 'Clone' button is located to the right of the MAC Address field. At the bottom of the configuration area, there are two buttons: 'Apply' and 'Refresh'.

## Dynamic IP Failover

**Host Name:** If your ISP requires you to enter a host name, enter it here. In most cases, you may leave this blank.

### 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. Changing it is not recommended unless required to do so by your ISP. You can use the **Clone** button to replace the WAN port's MAC address with the MAC address of your PC.

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

## Multi-WAN

### Dynamic IP (DHCP) Internet Connection Type

Host Name	<input type="text"/>
Primary DNS Server	<input type="text"/>
Secondary DNS Server	<input type="text"/>
MTU	<input type="text" value="0"/> (bytes)
MAC Address	<input type="text"/> <input type="button" value="Clone"/>



## PPPoE Failover

**Username:** The username provided by your ISP for your PPPoE account.

**Password:** The password provided by your ISP for your PPPoE account

**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:** Enter the primary DNS server.

### Secondary DNS

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

**MAC Address:** The default MAC address is set to the WAN port's physical interface MAC address. Changing it is not recommended unless required to do so by your ISP. You can use the **Clone** button to replace the WAN port's MAC address with the MAC address of your PC.

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

## Multi-WAN

### PPPoE

Username	<input type="text"/>
Password	<input type="password"/>
Verify Password	<input type="password"/>
Service Name	<input type="text"/> (optional)
IP Address	<input type="text"/>
Primary DNS Server	<input type="text"/> (optional)
Secondary DNS Server	<input type="text"/> (optional)
MAC Address	<input type="text"/> <input type="button" value="Clone"/>

# 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.



## 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 for LAN devices.

**Autoconfiguration Type:** Select **Stateful (DHCPv6)** or **SLAAC + Stateless DHCPv6**. This will determine the configuration type for you IPv6 LAN.

**IPv6 Address Range (Start):** If you selected **Stateful (DHCPv6)**, enter the address range start.

**IPv6 Address Range (End):** If you selected **Stateful (DHCPv6)**, enter the address range end.

**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, Multi-WAN, 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: Static IPv6 (dropdown)
- WAN IPv6 Address Settings:**
  - IPv6 Address: [text input]
  - Subnet Prefix Length: [text input]
  - Default Gateway: [text input]
  - Primary DNS Address: [text input]
  - Secondary DNS Address: [text input]
- LAN IPv6 Address Settings:**
  - LAN IPv6 Address: [text input]
  - LAN IPv6 Link-Local Address: fe80::4aee:cff:feab:e702 /64
- LAN Address Autoconfiguration Settings:**
  - Enable Autoconfiguration:
  - Autoconfiguration Type: Stateful (DHCPv6) (dropdown)
  - IPv6 Address Range(Start): [text input]
  - IPv6 Address Range(End): [text input]
  - IPv6 Address Lifetime: [text input] seconds

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

## 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:** If you did not enable DHCP-PD, 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)** or **SLAAC + Stateless DHCPv6**. This will determine the configuration type for you IPv6 LAN.

### IPv6 Address

**Range (Start):** If you selected **Stateful (DHCPv6)**, enter the address range start.

### IPv6 Address

**Range (End):** If you selected **Stateful (DHCPv6)**, enter the address range end.

### IPv6 Address

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

The screenshot shows the D-Link router's IPv6 configuration interface. The top navigation bar includes Home, Internet, Wi-Fi, LAN, Advanced, and System. The left sidebar lists WAN Service, Wizard, Multi-WAN, 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: Autocconfiguration (SLAAC/DHCPv6)
- IPv6 DNS Settings:**
  - DNS Setting:  Obtain DNS Server address Automatically  Use the following DNS address
  - Primary DNS Address: [Text Field]
  - Secondary DNS Address: [Text Field]
- LAN IPv6 Address Settings:**
  - Enable DHCP-PD:
  - LAN IPv6 Address: [Text Field] /64
  - LAN IPv6 Link-Local Address: fe80::4aee:cff:fe9b:e702 /64
- LAN Address Autoconfiguration Settings:**
  - Enable Autoconfiguration:
  - Autoconfiguration Type: Stateful (DHCPv6)
  - IPv6 Address Range(Start): [Text Field] /64
  - IPv6 Address Range(End): [Text Field] /64
  - IPv6 Address Lifetime: [Text Field] seconds

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

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

# PPPoE

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

**Password:** Enter your PPPoE password.

**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:** If you did not enable DHCP-PD, enter the LAN (local) IPv6 address.

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

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

**Autoconfiguration:**

**Autoconfiguration** Select **Stateful (DHCPv6)** or **SLAAC + Stateless DHCPv6**. This will **Type:** determine the configuration type for you IPv6 LAN.

**IPv6 Address**

**Range (Start):** If you selected **Stateful (DHCPv6)**, enter the address range start.

**IPv6 Address**

**Range (End):** If you selected **Stateful (DHCPv6)**, enter the address range end.

The screenshot displays the IPv6 configuration interface on a D-Link router. The top navigation bar includes Home, Internet, Wi-Fi, LAN, Advanced, and System. The left sidebar lists WAN Service, Wizard, Multi-WAN, 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: 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::4aee:cff:feab:e702 /64
- LAN Address Autoconfiguration Settings**
  - Enable Autoconfiguration:
  - Autoconfiguration Type: Stateful (DHCPv6) (dropdown menu)
  - IPv6 Address Range(Start): [text input] /64
  - IPv6 Address Range(End): [text input] /64
  - IPv6 Address Lifetime: [text input] seconds

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

# PPPoE

## IPv6 Address

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

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

The screenshot displays the D-Link router's configuration interface for IPv6. At the top, there is a navigation bar with icons for Home, Internet, Wi-Fi, LAN, Advanced, and System. The main content area is titled "IPv6" and contains several sections:

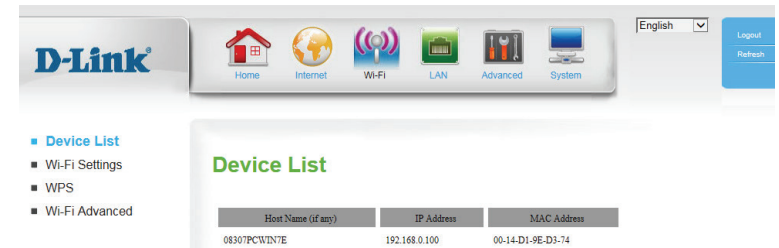
- Choose the mode to be used by the router to connect to the IPv6 Internet:** Includes radio buttons for "Disable" and "Enable" (selected), and a dropdown menu for "IPv6 Connection" set to "PPPoE".
- PPPoE Settings:** Includes input fields for "Username", "Password", "Service Name", and "MTU".
- IPv6 DNS Settings:** Includes radio buttons for "Obtain DNS Server address Automatically" (selected) and "Use the following DNS address", along with input fields for "Primary DNS Address" and "Secondary DNS Address".
- LAN IPv6 Address Settings:** Includes a checked checkbox for "Enable DHCP-PD", an input field for "LAN IPv6 Address" with a "/64" suffix, and a text label for "LAN IPv6 Link-Local Address" with the value "fe80::4aee:cff:feab:e702 /64".
- LAN Address Autoconfiguration Settings:** Includes an unchecked checkbox for "Enable Autoconfiguration", a dropdown menu for "Autoconfiguration Type" set to "Stateful (DHCPv6)", and input fields for "IPv6 Address Range(Start)", "IPv6 Address Range(End)", and "IPv6 Address Lifetime" (with a "seconds" label).

At the bottom of the configuration area, 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 security mode. Click **Apply** to save your settings, or **Refresh** to revert to your previous settings.

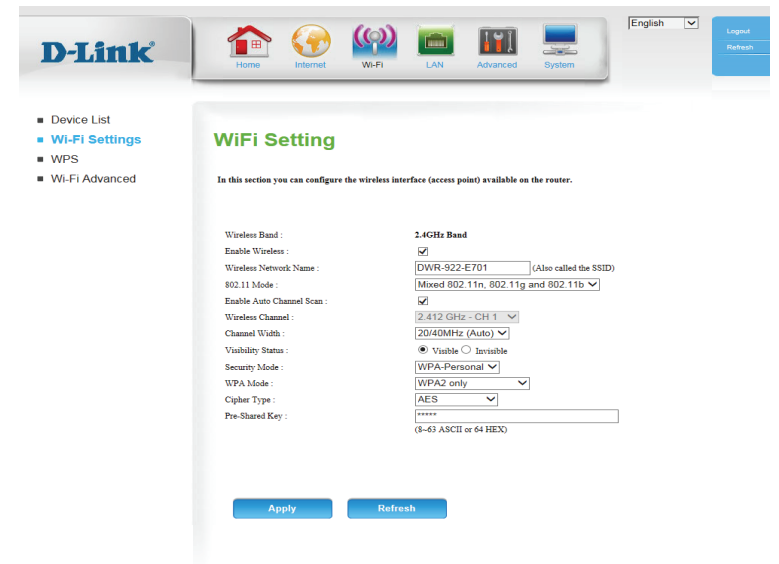
**Enable Wireless:** Check this box to enable wireless access. When you enable this option, the following parameters take effect.

**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.



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**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.

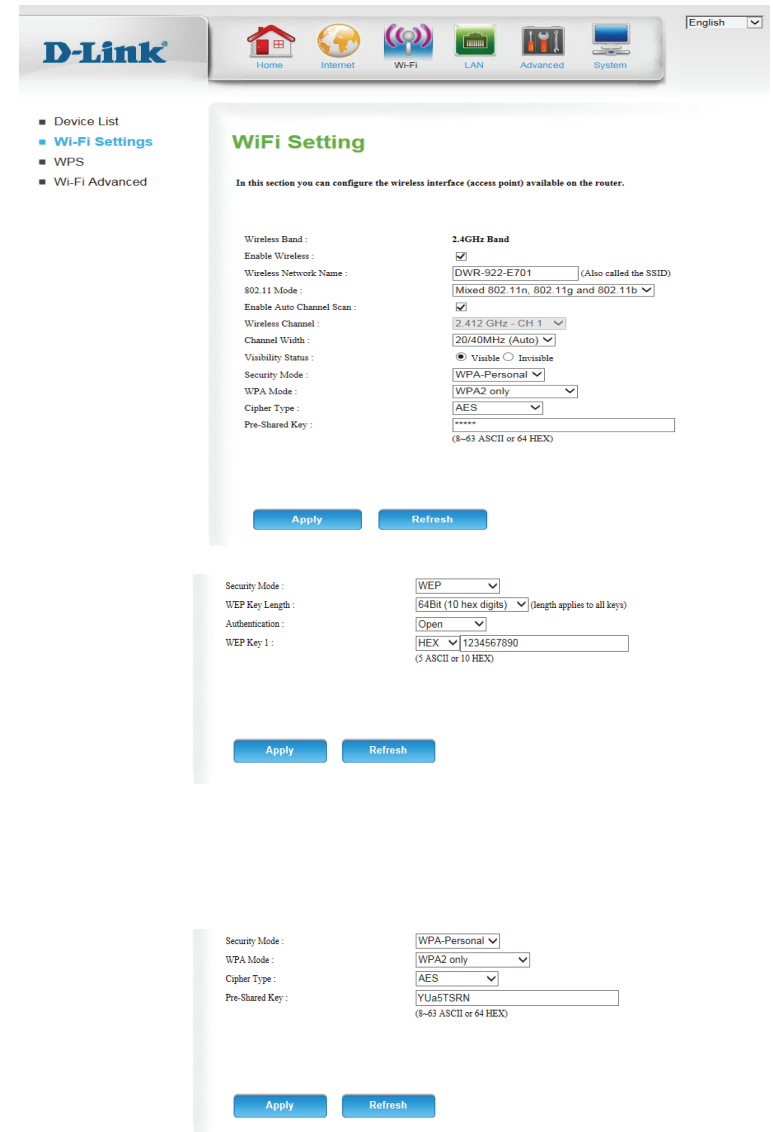
**WEP Key 1:** Set the WEP key/password for your wireless network. Based on whether you are using 64 or 128-bit encryption, and whether you are using a HEX or ASCII key, you will need to enter different numbers of characters for your key, as indicated below the WEP Key text box. ASCII keys may use letters 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 most secure, provided that all of your clients support it.

**Cipher Type:** Select whether to use the **TKIP** or **AES** cipher. The **AES** cipher is the most secure, 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 have the option 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 displays the D-Link router's web interface for WPS configuration. At the top, there is a navigation bar with icons for Home, Internet, Wi-Fi, LAN, Advanced, and System. A sidebar on the left lists menu items: Device List, Wi-Fi Settings, WPS (highlighted), and Wi-Fi Advanced. The main content area is titled 'WPS' and 'Wi-Fi Protected Setup (WPS)'. It includes a brief description of WPS and a form with the following fields:

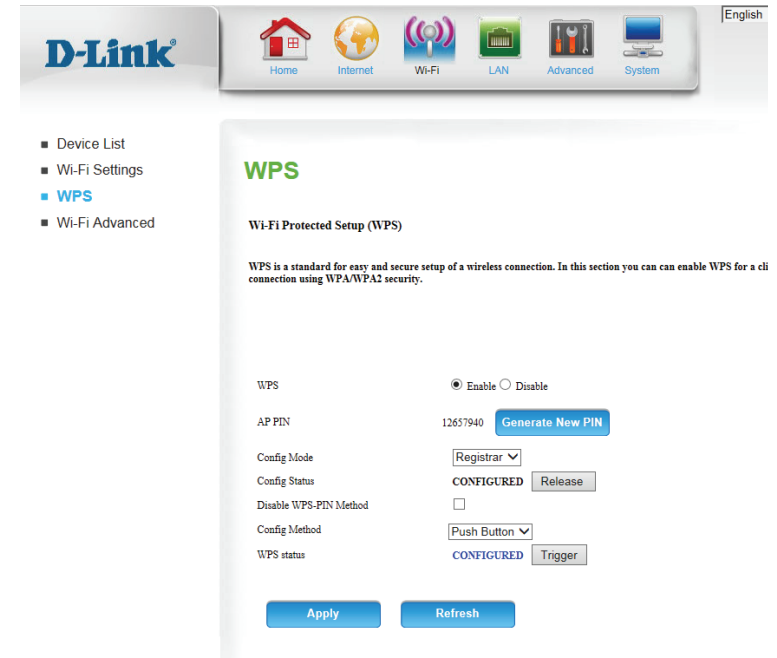
- WPS:** Radio buttons for 'Enable' (selected) and 'Disable'.
- AP PIN:** The value '12657940' is displayed next to a 'Generate New PIN' button.
- Config Mode:** A dropdown menu set to 'Registrar'.
- Config Status:** The status is 'CONFIGURED' with a 'Release' button.
- Disable WPS-PIN Method:** An unchecked checkbox.
- Config Method:** A dropdown menu set to 'Push Button'.
- WPS status:** The status is 'CONFIGURED' with a 'Trigger' button.

At the bottom of the form, 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 menu items: Device List, Wi-Fi Settings, WPS, and Wi-Fi Advanced (which is highlighted). The main content area is titled 'Advanced Wireless Settings' and contains the following configuration options:

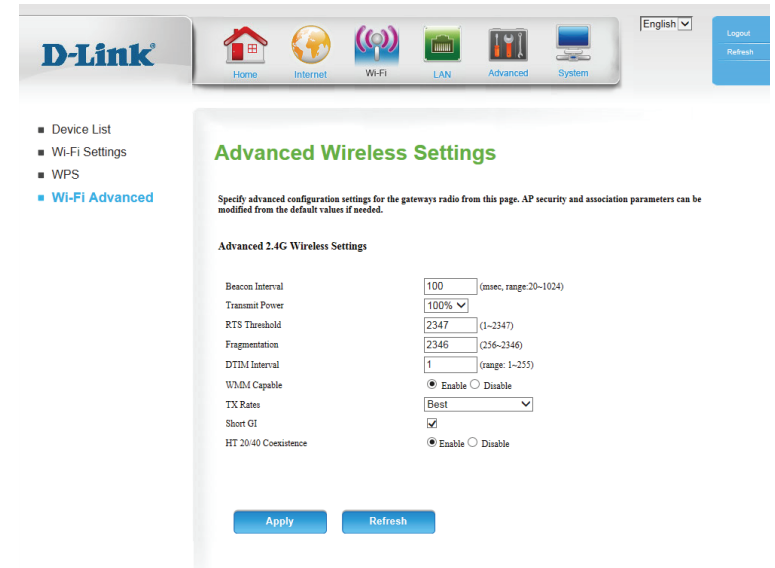
- Beacon Interval: 100 (msec, range:20-1024)
- Transmit Power: 100% (dropdown menu)
- RTS Threshold: 2347 (range: 1-2347)
- Fragmentation: 2346 (range: 256-2346)
- DTIM Interval: 1 (range: 1-255)
- WMM Capable:  Enable  Disable
- TX Rates: Best (dropdown menu)
- Short GI:
- HT 20/40 Coexistence:  Enable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

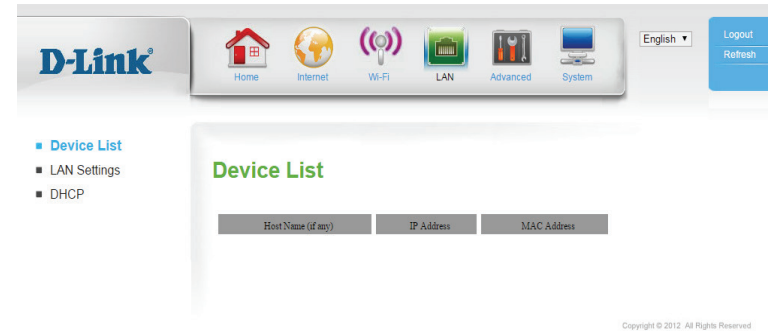


# LAN

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 wired clients, and their respective MAC addresses.



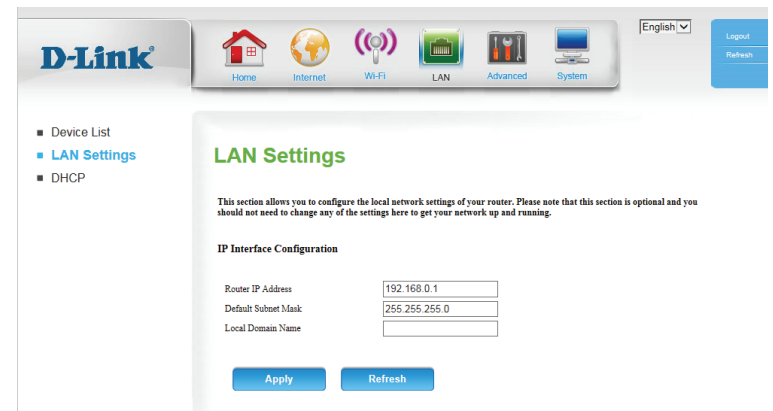
## LAN Settings

**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-961 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.

**DHCP Reservation:** Click **DHCP Reservation** 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: 50 to 199 (addresses within the LAN subnet)

DHCP Lease Time: 86400 (seconds)

Primary DNS IP Address:

Secondary DNS IP Address:

**DHCP Reservation**

Apply Refresh

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

- Device List
- LAN Settings
- DHCP**

### DHCP Reservation

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.

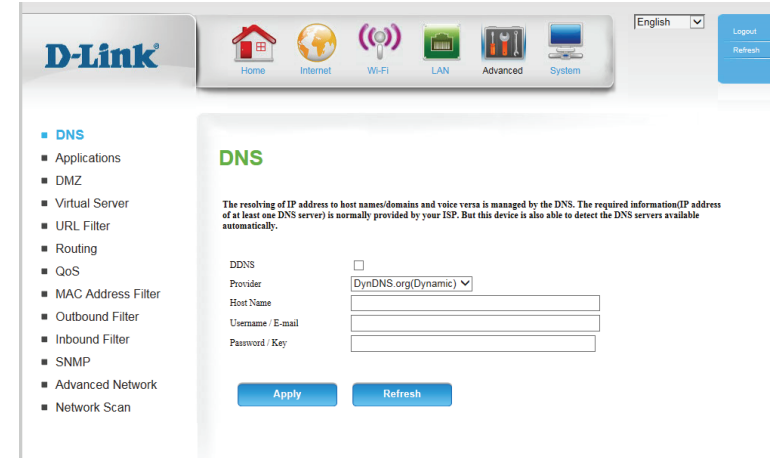
**Provider:** Select a DDNS service provider to use.

**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.



# 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-961 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 navigation menu on the left includes: DNS, Applications (selected), 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 'Applications' and features a 'Popular applications' dropdown menu with the text '-- Select one --', a 'Copy to' button, and an 'ID' dropdown menu. Below this is a table for 'Application Rules' with the following structure:

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"/>

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



# DMZ

Sometimes you may want a computer exposed to the Internet 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 Internet. This is not recommended for normal use.

**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 **LAN > DHCP > DHCP Reservation** 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.

