



User Manual

LTE Mobile Router

DWR-932

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
1.0	March 26, 2014	• Initial release

Trademarks

D-Link and the D-Link logo are trademarks or registered trademarks of D-Link Corporation or its subsidiaries in the United States or other countries. All other company or product names mentioned herein are trademarks or registered trademarks of their respective companies.

Copyright © 2014 by D-Link Corporation, Inc.

All rights reserved. This publication may not be reproduced, in whole or in part, without prior expressed written permission from D-Link Corporation, Inc.

Table of Contents

Product Overview	1	Mobile Network.....	21
Package Contents	1	Mobile Network Settings	21
System Requirements	1	SIM Card Lock Settings	22
Introduction	2	Operator	23
Hardware Overview	3	Wi-Fi Mode Settings.....	24
Top Side	3	WAN Wi-Fi	25
Hardware Overview	4	Profile Management	25
Bottom Side	4	AP List.....	26
LCD Display	5	Wi-Fi Setup	27
Installation	7	Wi-Fi Settings	27
Connect to Your Network	7	Wireless Security	28
Insert a microSD Card	7	Wi-Fi Protected Access (WPA).....	28
Driver Installation	8	Client List	29
Wireless Installation Considerations.....	9	WPS.....	30
Configuration	10	Wi-Fi Sharing	31
Initial Connection to the Router	10	Applications.....	32
Connect via USB	10	Firewall Settings	32
Connect via Wi-Fi	11	Port Range Forward	32
Web-based Configuration	13	DMZ	33
Configuration Utility	13	UPnP	34
Navigation.....	14	Access From WAN	35
Status	15	IP Filter	36
Network Setup.....	16	URL Filter	37
Quick Setup	16	NAS	38
LAN Setup.....	20	SMS	39
		Compose	39

Inbox.....	40	Connecting to a Wireless Network	59
Draft.....	41	Using Windows 8	59
Phone Book.....	42	Using Windows 7	61
Settings.....	43	Configuring Wireless Security	63
Delivery Reports.....	44	Using Windows Vista™	66
USSD.....	45	Configuring Wireless Security	67
Network Traffic Statistics.....	46	Using Windows® XP	69
Setup	46	Configure WEP	70
Statistics	47	Configure WPA-PSK.....	72
Diagnostic	48	Troubleshooting	74
Ping	48	Networking Basics	76
Traceroute.....	49	Check your IP address.....	76
Device Setting	50	Statically Assign an IP address	77
Administration.....	50	Technical Specifications	78
Account	50		
Backup/Restore	51		
Reset/Reboot.....	52		
Software Upgrade	53		
Language.....	54		
Time	55		
Power Management	56		
About	57		
System Log.....	58		

Product Overview

Package Contents



D-Link DWR-932 LTE Mobile Router



Battery



USB Cable



Power Adapter

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

System Requirements

- A compatible (U)SIM card with mobile data service¹
- A computer with Windows®, Macintosh®, or Linux-based operating systems
- Internet Explorer 7, Firefox 12, Chrome 20, or Safari 4

¹ Subject to services and service terms available from your carrier.

Introduction

The D-Link DWR-932 LTE Mobile Router lets you share a fast mobile Internet connection with multiple PCs and mobile devices wherever you go. It offers 4G LTE and 3G HSPA+ compatibility for fast downlink and uplink data rates, so you get the high-speed upload and download speeds even when you're on the go. Set up a personal mobile network anywhere, anytime allowing you and those around you to access the Internet, and share files.

High-Speed Mobile Internet with LTE Connectivity

The DWR-932 LTE Mobile Router gives you high-speed access to the Internet wherever you are and lets you share it on the go. Using LTE technology, you can achieve download speeds of up to 100 Mbps and upload speeds of up to 50 Mbps¹. The built-in LTE antenna provides a reliable connection to your mobile service provider, and a separate Wi-Fi antenna gives extended coverage to the computers and mobile devices connected to the DWR-932.

Mobile Internet for All of Your Devices

The LTE Mobile Router lets you share your fast mobile connection over Wi-Fi from a device small enough to fit in your pocket. With the DWR-932, you can get online with your notebook, smartphone, tablet, or any other wireless device using a single mobile connection. The DWR-932 provides high-speed Wireless N coverage to give high-speed wireless access to everybody – whether you are with colleagues on a business trip, or travelling with friends and family.

Built-in Software for Instant Access Anywhere

The DWR-932 is truly plug and play, with drivers built right into the router so you can connect without the need to install anything. Open a browser, connect the router, and you can set up your network right from a web interface. This means that notebooks and netbooks without a CD-ROM drive can connect and get up and running in no time. Once the device is set up, you can simply power it on to start up your portable mobile network, meaning that you can share your mobile Internet connection without even needing a computer.

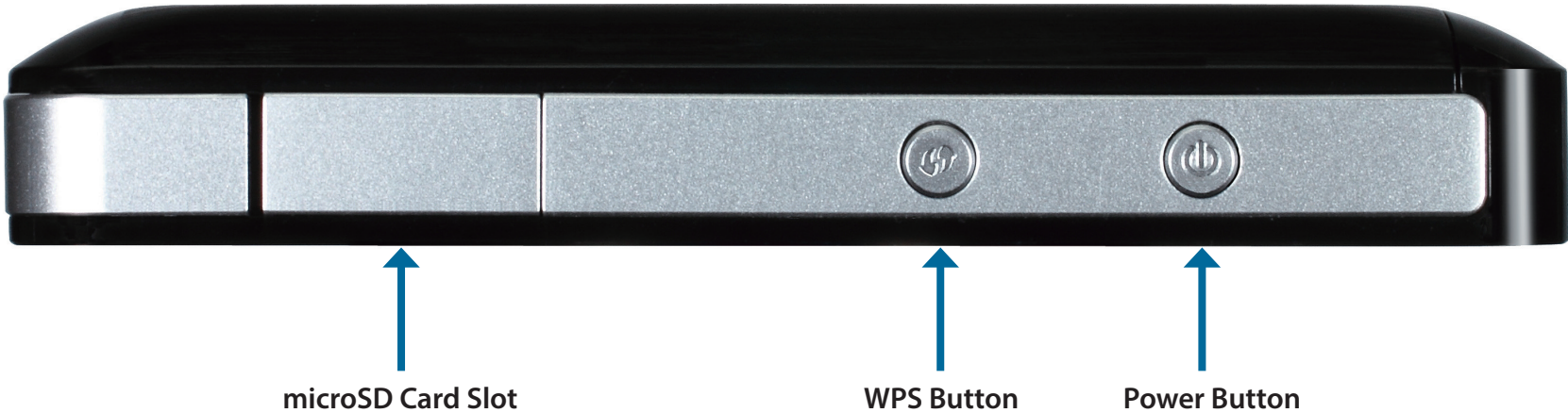
Designed for True Portability

The DWR-932 LTE Mobile Router is small and slim enough to carry around in your purse, bag, or pocket. It features a microSD card slot for optional removable storage (up to 32 GB), allowing you to always have your files and contacts on hand. The built-in 1880 mAh rechargeable Li-Ion battery can provide hours of mobile usage, meaning that you can share your mobile Internet connection in the car, in the park, or anywhere, and work or play longer without needing to recharge.

¹ All references to speed are for comparison purposes only. Actual speeds will vary depending on a range of factors including mobile network coverage, signal strength, network activity, and environmental conditions.

Hardware Overview

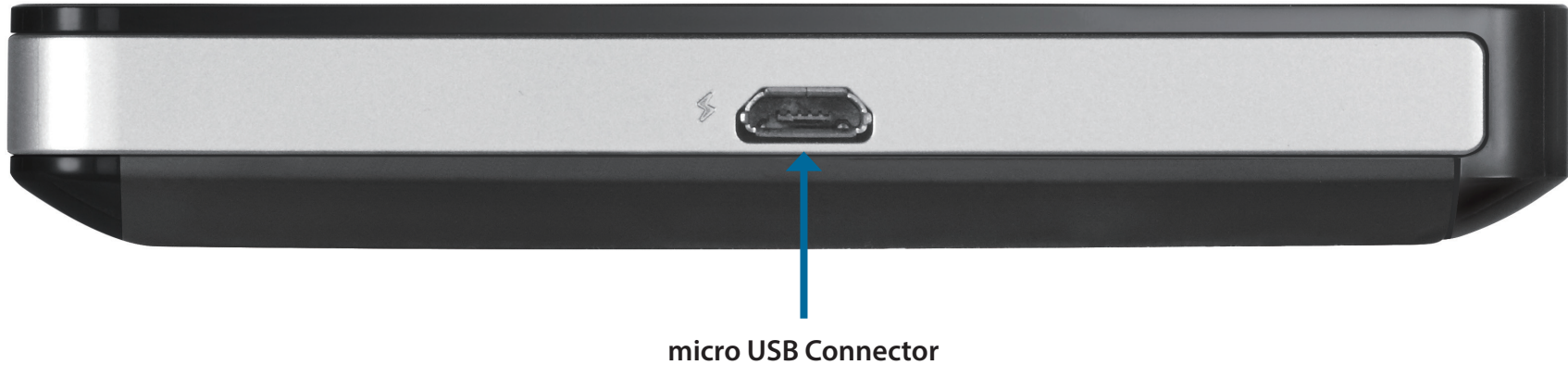
Top Side



Power Button	Press and hold this button for 6 seconds to power on/off the device.
WPS Button	Press this button to add new wireless devices quickly and easily using Wi-Fi Protected Setup (WPS).
microSD Card Slot	Insert a microSD Card (up to 32GB) to access and share files and media wherever you go.

Hardware Overview

Bottom Side

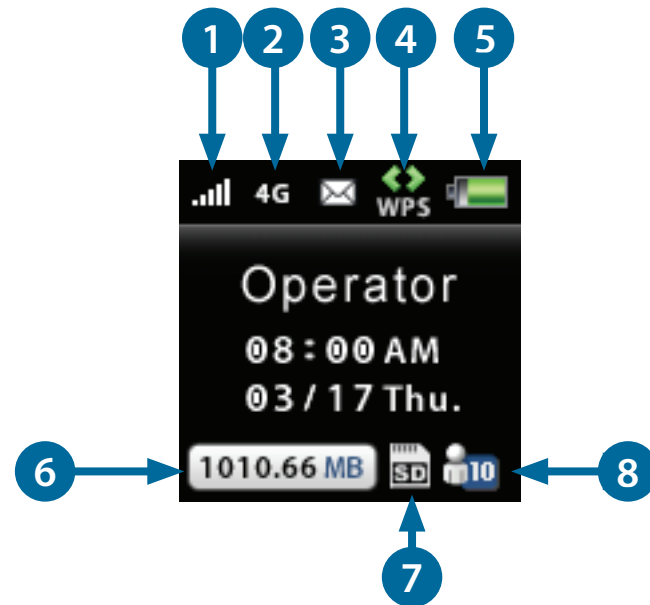


micro USB Connector	Use the included cable to connect to a powered USB port to charge the device, or to access the configuration utility.
----------------------------	---

Hardware Overview

LCD Display

The current status of the DWR-932's functions including mobile network, Wi-Fi, security, Internet status, signal strength, and battery level will be shown on the LCD display. Please refer to the table below for the specific indications which are shown on the display.



Number	Function	Icon	Indication
1	Network Strength	0-5 Bars	Indicates the strength of the current mobile network connection
2	Network Type	4G	Currently connected to 4G mobile network
		H+	Currently connected to DC-HSPA or HSPA+ mobile network
		H	Currently connected to HSPA mobile network
		3G	Currently connected to WCDMA mobile network
		2G	Currently connected to GPRS/EDGE network
		No SIM	No SIM card detected in device

3	SMS	Number	There are unread SMS messages in the inbox
4	Wi-Fi Protected Setup	WPS	The device is ready for WPS association with wireless clients
5	Battery Status	Empty-Full	Displays the current battery level. If charging, the animation will indicate charging status and current battery level
6	Data Transfer	Number	Displays the current amount of data that has been transmitted.
7	External Media	SD Card	Indicates the SD card has external media loaded and is ready.
8	Wi-Fi & Clients	Number	Indicates the number of clients currently connected to the device by Wi-Fi

Installation

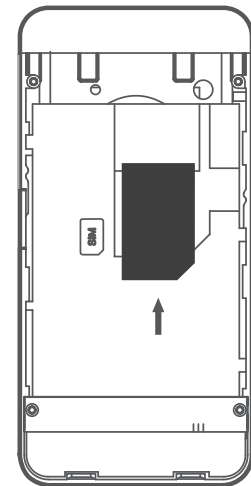
This section will guide you through the installation process.

Connect to Your Network

1. Ensure that your DWR-932 LTE Mobile Router is powered off.
2. Remove the back cover and take out the battery. Slide your (U)SIM card into the slot provided, ensuring that the alignment is the same as indicated by the logo next to the slot. The gold contacts on the card should be facing downwards.

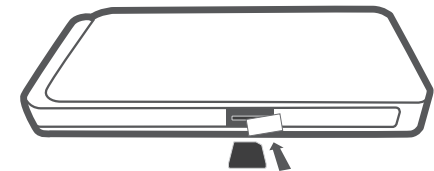
Caution: Always unplug and turn off the router before installing or removing the SIM card. Never insert or remove the SIM card while the router is in use.

3. Press and hold the power button on the side of the router.
 - a. "D-Link" will be displayed on the screen as the router performs its initialization processes.
 - b. After a few moments, the LCD display will show the current status of the router's various functions. For more details on the LCD display, please refer to "LCD Display" on page 5.



Insert a microSD Card

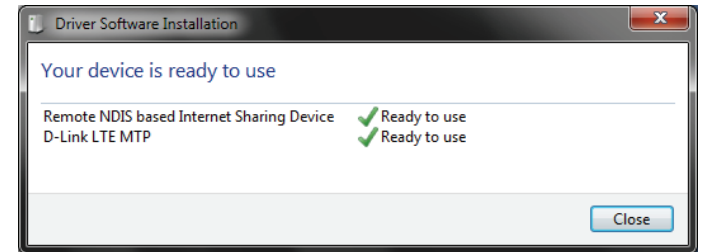
1. Ensure that your DWR-932 LTE Mobile Router is powered off.
2. Open the cover of the microSD slot on the side of the router.
3. Insert the microSD card into the slot and push it in until it locks into place.



Driver Installation

When you plug the DWR-932 into your computer, any necessary drivers will immediately install (with your permission).

Note: These drivers are Windows-only. Mac and Linux users will still be able to configure the DWR-932 using the web configuration utility described in “Configuration Utility” on page 13.



Wireless Installation Considerations

The DWR-932 can be accessed using a wireless connection from anywhere within the operating range of its 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 adversely affect wireless signals. 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 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) appears to be almost 3 feet (1 meter) thick at a 45-degree angle. At a 2-degree angle it appears 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 a 2.4 GHz cordless phone, 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

This section will show you how to configure your new D-Link mobile router using the configuration utility that can be obtained through a software interface or a web-based user interface.

Initial Connection to the Router

When configuring the router for the first time, you will need to establish a direct connection with the router in order to access the web-based configuration utility. This can be done using the included USB cable, or by connecting wirelessly to the DWR-932. Once you have configured your router, you will be able to connect using the Wi-Fi settings that you have specified in the configuration process. Ensure that the router is powered on and has sufficient battery power before commencing the setup process.

Connect via USB

To connect to the router via USB, plug the provided micro USB cable into the micro USB port on the bottom of the router, and plug the other end into an available USB port on your computer. Your router is now ready for configuration, please refer to “Configuration Utility” on page 13 to continue the setup process.

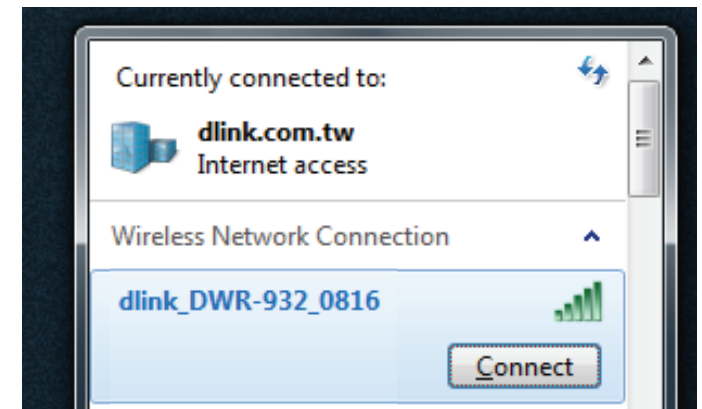
Connect via Wi-Fi

Note: The following example uses Windows 7's built-in wireless connection utility. If you are using a different operating system, or a third party connection utility, the process may be different. Please refer to the documentation that came with your operating system or wireless client for further information on how to connect to a wireless network.

To connect to the router using Wi-Fi, open your operating system's wireless networking utility and scan for available networks to connect to. By default, the network name (SSID) of the DWR-932 will be in the format **dlink_DWR-932xxxx**, where "xxxx" represents the last four character's of the DWR-932's MAC address.

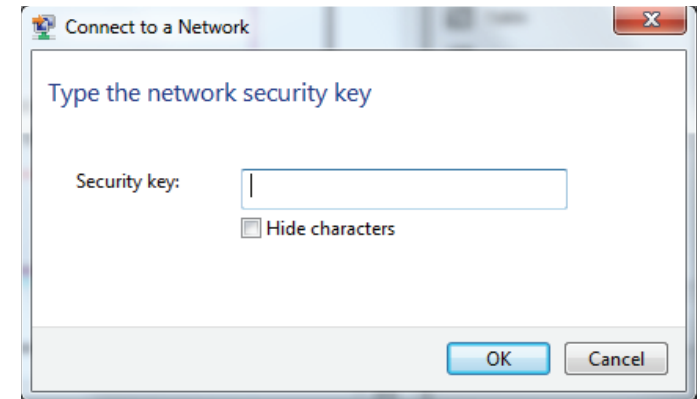


Once you have located this network with your wireless utility, connect to the network using your wireless networking utility.



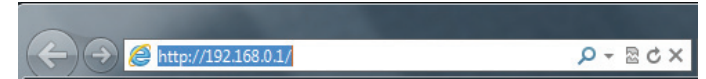
You will then be prompted to enter the network security key for your router. The unique security key for your router will be displayed on a sticker in the router's battery bay. Enter the security key in the box provided and click **OK**. Your wireless connection utility should confirm that the connection is successful, and you can move to the next step to continue to the configuration process.

You can also setup a connection using the Windows built in WPS feature. Please see "Connecting to a Wireless Network" on page 59.



Web-based Configuration

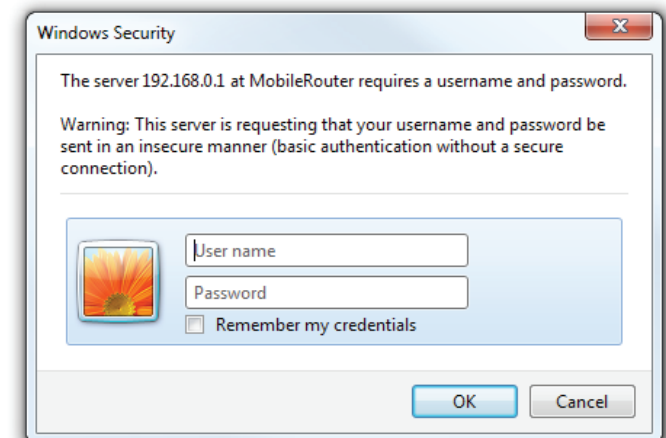
To access the configuration utility, open a web browser (such as Internet Explorer) and enter the IP address of the router, which is **192.168.0.1** by default.



Configuration Utility

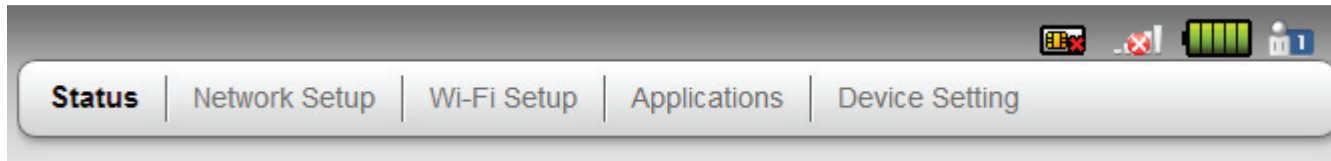
Once you have reached the configuration utility through the installed software or your web browser, you will need to log in. Enter **admin** as the username, and then enter the password. By default, the password is blank. You can also select your language from the drop-down menu.

Click **Login** to continue.



Navigation

Throughout the interface you will find a menu bar at the top of the page which includes tabs for easy navigation, and a summary bar in the upper right corner with a quick view of essential information.



SIM: This icon shows whether or not a compatible (U)SIM card has been inserted into the device.

Signal Strength: Indicates the current strength of the mobile network signal being received.

Battery Strength: Indicates the current strength of the battery.

Client Count: Indicates the current number of connected clients.

Status: The **Status** tab will return you the home page, where a summary of the system information is shown.

Network Setup: The **Network** tab allows you to configure the network settings for your Local Area Network (LAN).

Wi-Fi Setup: The **Wi-Fi** allows you to configure your Wi-Fi network, as well as add new devices using WPS.

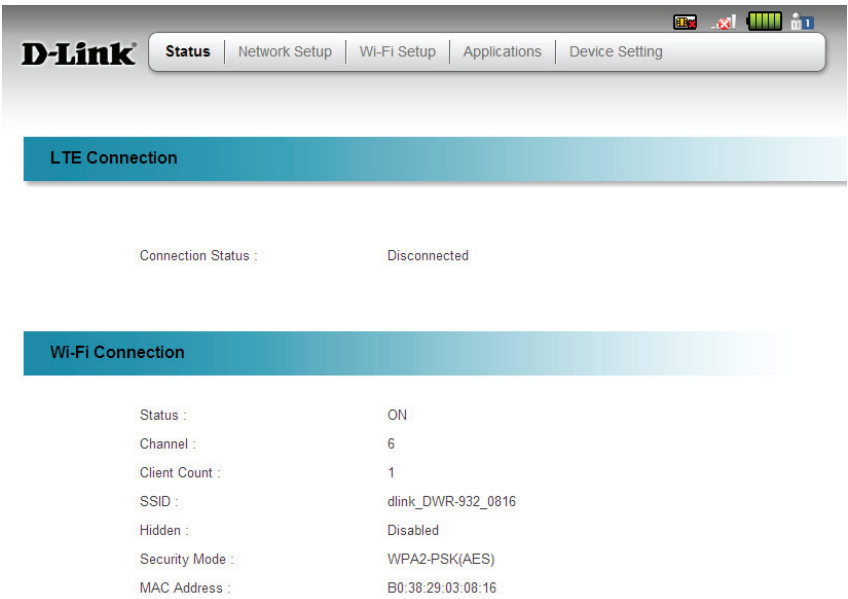
Application: The **Application** tab allows you to configure firewall and security settings to protect your network from WAN-side intrusions.

Device Setting: From this tab, you can manage the administrative configuration of your router, such as time and date, firmware, language, and remote management.

Status

A summary of the device’s current status will be displayed on the initial homepage for the DWR-932.

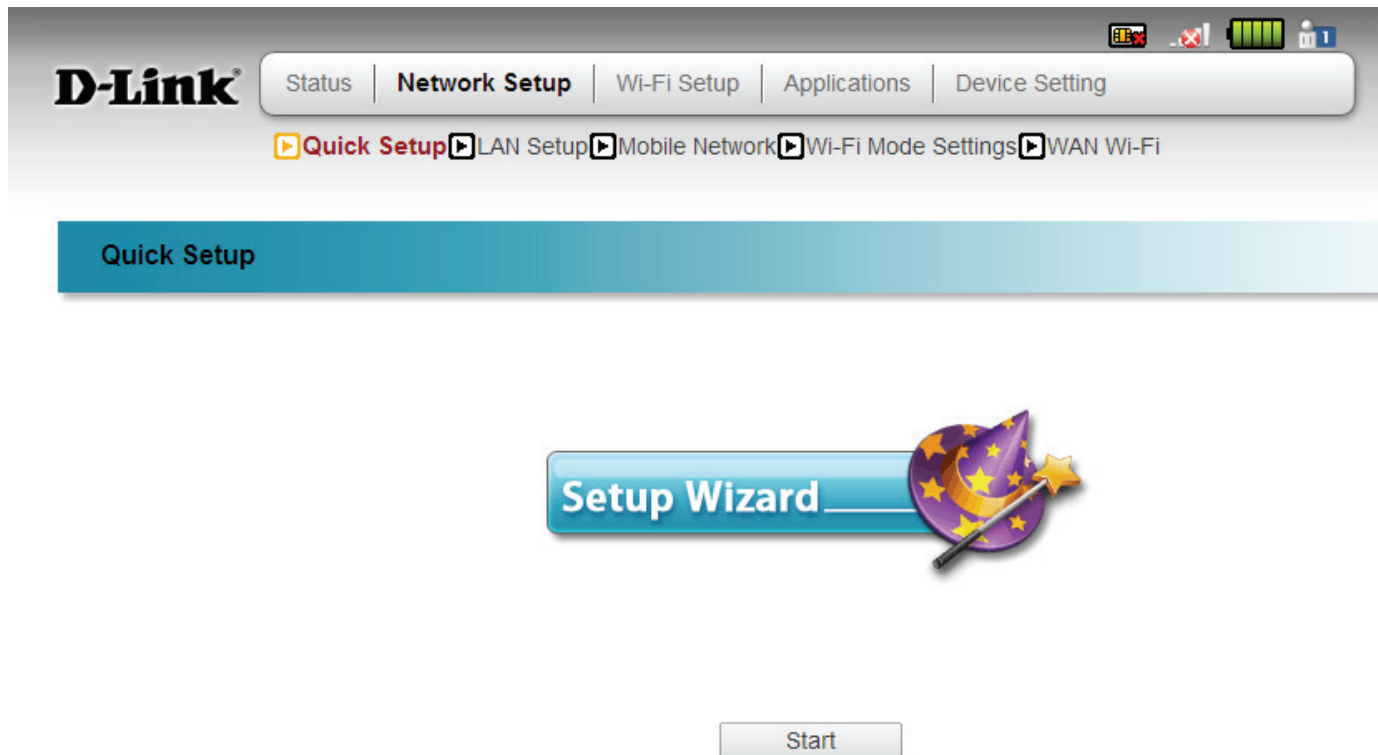
- LTE Connection:** This area shows the current status of your LTE mobile network connection.
- Wi-Fi Connection:** This area displays a summary of the current settings for the router’s Wi-Fi connection.



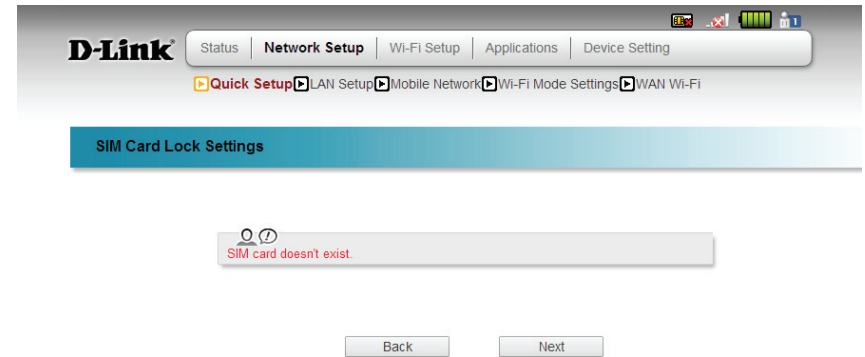
Network Setup

Quick Setup

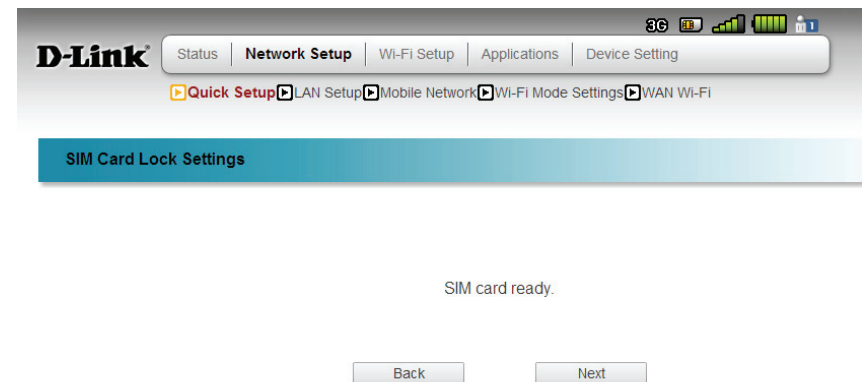
The **Wizard** page will guide you through the steps required to configure the basic settings of your router such as the IP address, network name (SSID), and password. Click on the **Start** button to begin the quick setup wizard.



If you don't have a SIM card inserted into the DWR-932, the screen shown to the right will be displayed. You will need to power off the device, insert a SIM, and restart the wizard to complete the quick setup process.



If you do have a SIM card inserted, the DWR-932 will initialize it and attempt to connect to your mobile service provider. If your SIM card has a lock on it, you will be prompted to enter the PIN code to access it. If it does not have a SIM lock, you can click **Next** to continue.



Mobile Network Settings allows you to configure the settings needed to connect to your mobile service provider. If you do not know this information, please contact your service provider.

Auto Connect: Check this option if you want the DWR-932 to automatically connect to a mobile network after it has been powered on, or has been disconnected from its current mobile network.

Roaming: Select whether you would like to **Enable** or **Disable** mobile network roaming from the drop-down menu.

Caution: Roaming on networks other than your own may incur additional usage charges.

Network Mode: Select your preferred cellular network connection mode

APN

Selection: If you are already connected to a mobile network, your ISP may provide the necessary APN which you can select from the drop down list.

Manual: Enter the Access Point Name (APN) for the connection. If you do not know this information, please contact your service provider.

Username: Enter the username to be used for this connection.

Password: Enter the password to be used for this connection.

Method: Choose the authentication method that you ISP uses to connect to its mobile network. If you do not know this information, please contact your service provider.

The screenshot shows the D-Link Mobile Network Settings page. At the top, there is a navigation bar with the D-Link logo and tabs for Status, Network Setup (selected), Wi-Fi Setup, Applications, and Device Setting. Below the navigation bar, there is a sub-menu with links for Quick Setup, LAN Setup, Mobile Network (selected), Wi-Fi Mode Settings, and WAN Wi-Fi. The main heading is "Mobile Network Settings" with a help icon. The settings are organized into sections: "Auto Connect" (checked), "Roaming" (unchecked), and "Network Mode" (set to "Auto"). The "APN" section has two radio buttons: "Selection" (selected) and "Manual". Below "Selection" is a dropdown menu. The "Authentication" section has fields for "Username", "Password", and "Re-Enter to Confirm", along with an "Unmask" checkbox. The "Method" dropdown is set to "None". At the bottom, there are "Back" and "Next" buttons.

Wi-Fi Settings and Wi-Fi Security allows you to configure the settings for connecting to the Wi-Fi connection on the DWR-932. By default, the DWR-932 operates the Wi-Fi in single mode. To find out more about the different Wi-Fi modes, please see “Wi-Fi Mode Settings” on page 24.

SSID: If you wish to change your wireless network name (SSID), enter a new name in the field provided. If you change the SSID, you may need to re-connect to the router using the new SSID before you can access your network or the configuration utility.

Channel: To have the router automatically select the optimal wireless channel, select **Auto** from the drop-down menu. If you wish to select a particular channel, select it from the drop-down menu.

Broadcast Network Name: This option allows you to hide your wireless network. When this option is checked, your wireless network name is broadcasted to anyone within the range of your signal. If you are not using encryption then they could connect to your network.

Security Mode: You will need to choose one of the following options; **Disable**, **WPA-PSK(TKIP)**, **WPA-PSK(AES)**, **WPA2-PSK(TKIP)**, **WPA2-PSK(AES)**, **WPA-PSK-MIXED**. Please refer to “Wi-Fi Protected Access (WPA)” on page 28 to learn more about these options.

Security Key: Choose a password for your wireless security. Clients will need this password in order to access your network wirelessly. If you are currently connected to the router using Wi-Fi, you will need to reconnect to the router using your new password once the wizard has been completed.

Click **Done** to complete the wizard, or click **Back** to return to the previous page.

After you have clicked **Done**, a confirmation window will appear. Click **Apply** to save the configuration.

The screenshot shows the D-Link configuration utility interface. At the top, there's a navigation bar with tabs: Status, Network Setup, Wi-Fi Setup, Applications, and Device Setting. Below this, there's a sub-navigation bar with links: Quick Setup, LAN Setup, Mobile Network, Wi-Fi Mode Settings, and WAN Wi-Fi. The main content area is divided into two sections: "Wi-Fi Settings" and "Wi-Fi Security".

Wi-Fi Settings:

- Network Name (SSID): dlink_DWR-932_0816
- Channel: Auto (Current Channel: 6)
- Broadcast Network Name (SSID): ☒ Enabled

Wi-Fi Security:

- Security Mode: WPA2-PSK(AES)
- Security Key: [masked with dots] ☐ Unmask

At the bottom of the Wi-Fi Security section, there are two buttons: "Back" and "Finish".

LAN Setup

The DWR-932 has a built-in DHCP server which can assign IP addresses to connected clients. This section allows you to configure the IP address for the DWR-932 as well as configure its DHCP settings.

NETWORK SETUP

IP Address: If you wish to change the router's IP address, enter the new address here. If you change the IP address from the default, you will need to enter the new address in your Internet browser's address bar in order to access the web-based configuration utility.

DHCP SETUP

DHCP Server: Select either **Enabled** or **Disabled** for the DHCP server on your DWR-932.

Start IP Address: Enter the starting IP addresses for the DHCP server's IP assignment.

Number of Addresses: Enter the number of IP addresses to be allocated by the DHCP server IP assignment.

DHCP Address Range: Shows the starting and ending IP addresses for the DHCP server's IP assignment.

Click **Apply** to save the configuration.

The screenshot shows the D-Link web-based configuration utility. At the top, there is a navigation bar with tabs: Status, Network Setup (selected), Wi-Fi Setup, Applications, and Device Setting. Below the navigation bar, there is a sub-menu with icons and labels: Quick Setup, LAN Setup (selected), Mobile Network, Wi-Fi Mode Settings, and WAN Wi-Fi. The main content area is divided into two sections. The first section is titled 'Network Setup' and contains a 'Local IP Address' field with a default value of 192.168.0.1. The second section is titled 'DHCP Setup' and contains the following settings: 'DHCP Server' is set to 'Enabled' (radio button selected), 'Start IP Address' is 192.168.0.2, 'Number of Address' is 64, and 'DHCP Address Range' is 192.168.0.2 ~ 192.168.0.65. An 'Apply' button is located at the bottom right of the DHCP Setup section.

Mobile Network

Mobile Network Settings

Auto Connect: Check this option if you want the DWR-932 to automatically connect to a mobile network after it has been powered on, or has been disconnected from its current mobile network.

Roaming: Select whether you would like to **Enable** or **Disable** mobile network roaming from the drop-down menu.

Caution: Roaming on networks other than your own may incur additional usage charges.

Network Mode: Select your preferred cellular network connection mode.

APN

Selection: If you are already connected to a mobile network, your ISP may provide the necessary APN which you can select from the drop down list.

Manual: Enter the Access Point Name (APN) for the connection. If you do not know this information, please contact your service provider.

Username: Enter the username to be used for this connection.

Password: Enter the password to be used for this connection.

Method: Choose the authentication method that your ISP uses to connect to its mobile network. If you do not know this information, please contact your service provider.

The screenshot shows the D-Link Mobile Network Settings page. At the top, there is a navigation bar with tabs: Status, Network Setup (selected), Wi-Fi Setup, Applications, and Device Setting. Below the navigation bar, there is a list of settings: Quick Setup, LAN Setup, Mobile Network (selected), Wi-Fi Mode Settings, WAN Wi-Fi, Mobile Network Settings (highlighted in red), SIM Card Lock Settings, and Operator. The main content area is titled 'Mobile Network Settings' with a help icon. It contains the following settings:

- ☒ Auto Connect
- ☐ Roaming
- Network Mode : Auto ▼
- APN
 - ☒ Selection : ▼
 - ☐ Manual :
- Authentication
 - Username :
 - Password : ☐ Unmask
 - Re-Enter to Confirm :
 - Method : None ▼

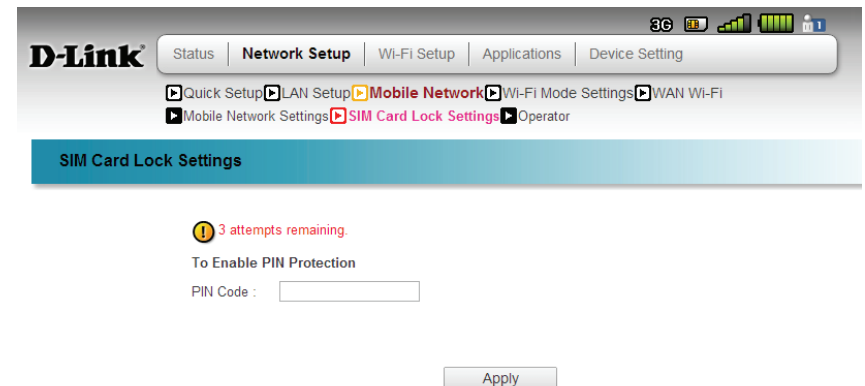
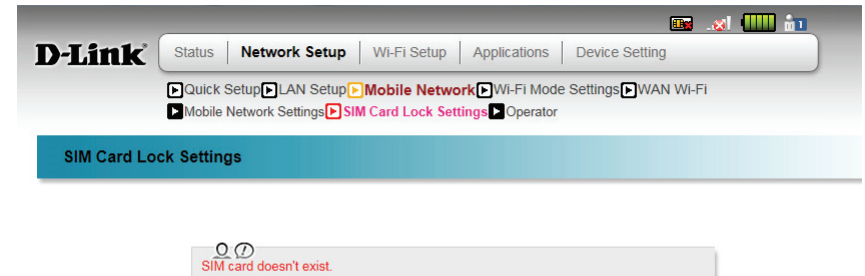
At the bottom right, there is an 'Apply' button.

SIM Card Lock Settings

This section allows you to turn SIM lock on or off for the SIM card which is currently inserted into the router.

PIN Code: Enter the PIN code for the SIM card. Click **Enable** to turn on SIM lock, or click **Disable** to turn off SIM lock.

Click **Apply** to save the configuration.



Operator

This page allows you to view available Public Land Mobile Networks (PLMN). This page can also be used to select a preferred network when you are roaming outside of your home network.

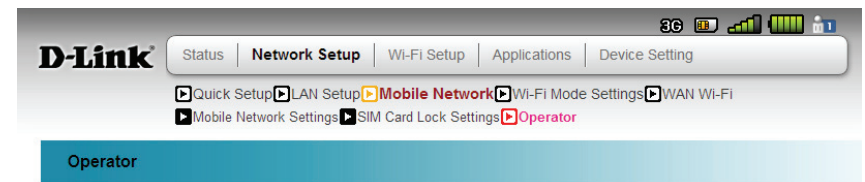
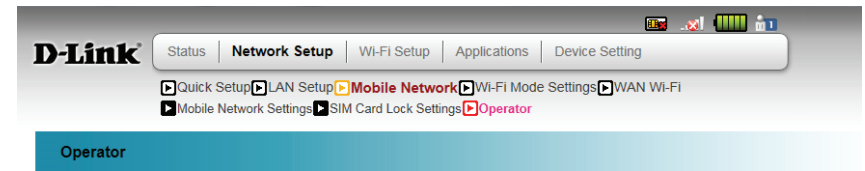
PLMN Mode: Displays the current mode the DWR-932 is operating in.

PLMN Selection: Select **Auto** to allow the DWR-932 to automatically connect to the first available network when roaming. Select **Manual** to choose your preferred roaming network from the list below.

If you have selected Manual mode, click on the preferred network to select it, and then click the **Update** button to select that network as the preferred network. Click **Search** to refresh the list of available networks.

Note: You will need to manually disconnect the current mobile data service before selecting a network using PLMN.

Click **Apply** to save the configuration.



Wi-Fi Mode Settings

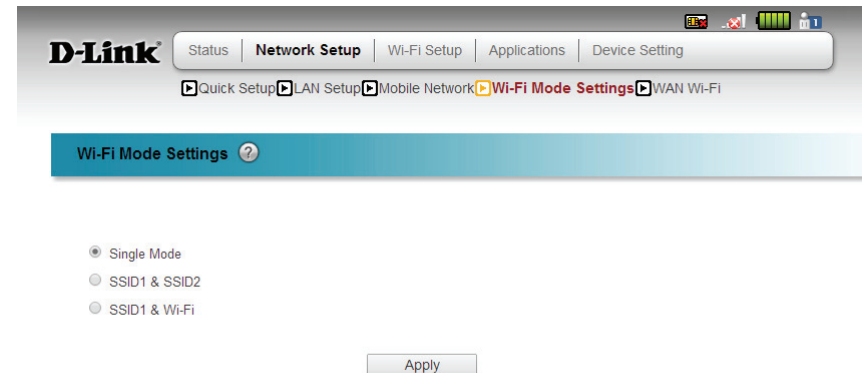
This section lets you select the mode for Wi-Fi operation with the DWR-932.

Single Mode: Single Mode supports up to 10 Wi-Fi clients for sharing the mobile Internet through the DWR-932.

SSID1 & SSID2: This mode splits the usage between two different SSIDs. Each SSID can have up to 5 different Wi-Fi clients connected for sharing the mobile Internet through the DWR-932.

SSID1 & Wi-Fi: This mode only allows a single user the ability to be connected for using the mobile Internet through the DWR-932.

Click **Apply** to save the configuration.



WAN Wi-Fi Profile Management

This section lets you setup different profiles to use when connecting to different Wi-Fi hot spots.

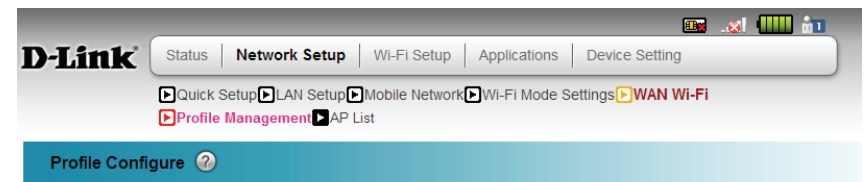
Add: Click the **Add** button to setup a new profile to use when connecting to a specific Wi-Fi hot spot. This will open a new page where you can input the necessary SSID and security information needed to connect.

Network Name (SSID): If you wish to change your wireless network name (SSID), enter a new name in the field provided. If you change the SSID, you may need to re-connect to the router using the new SSID before you can access your network or the configuration utility.

IP Protocol: Select either DHCP or Static. If you select static you will need to enter the necessary network information needed to establish a connection to your mobile service provider. If you do not know this information, please contact your service provider.

Security Mode: You will need to choose one of the following options; **Disable**, **WPA-PSK(TKIP)**, **WPA-PSK(AES)**, **WPA2-PSK(TKIP)**, **WPA2-PSK(AES)**, **WPA-PSK-MIXED**. Please refer to “Wi-Fi Protected Access (WPA)” on page 28 to learn more about these options.

Click **Apply** to save the configuration.



AP List


This section lets you view the available Wi-Fi hotspots that are visible to the DWR-932.

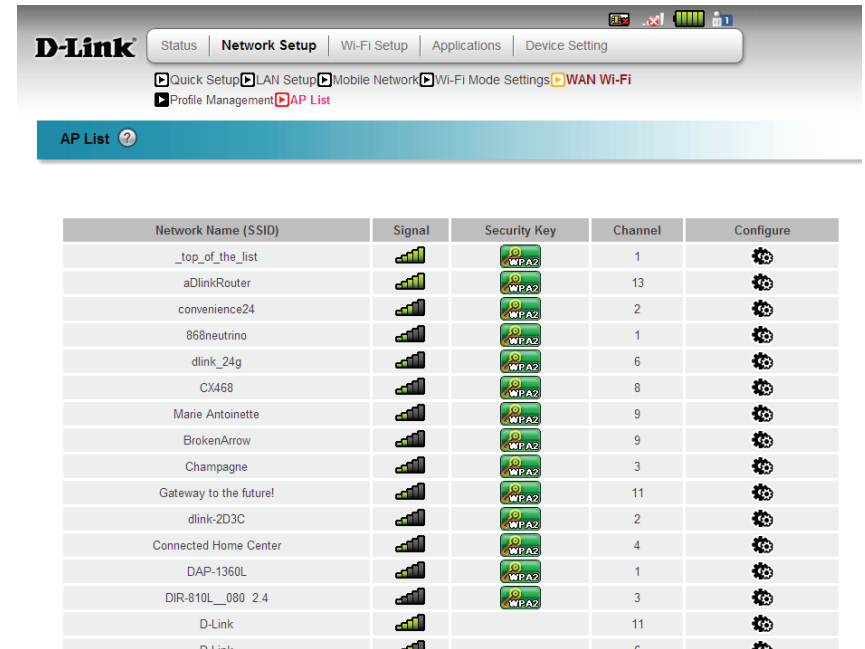
Network Name (SSID): Displays the network name of an available hotspot.

Signal: Displays the signal strength of an available hot spot.

Security Key: Displays the type of security used by an available hot spot.

Channel: Displays the Wi-Fi channel used by an available hot spot.

Configure: Click on the  icon to add the Wi-Fi network to the profile management page. Please refer to “Profile Management” on page 25 for more details.



Wi-Fi Setup

Wi-Fi Settings

SSID: If you wish to change your wireless network name (SSID), enter a new name in the field provided. If you change the SSID, you may need to re-connect to the router using the new SSID before you can access your network or the configuration utility.

Channel: To have the router automatically select the optimal wireless channel, select **Auto** from the drop-down menu. If you wish to select a particular channel, select it from the drop-down menu.

Broadcast Network Name: This option allows you to hide your wireless network. When this option is checked, your wireless network name is broadcasted to anyone within the range of your signal. If you are not using encryption then they could connect to your network.

Security Mode: You will need to choose one of the following options; **Disable**, **WPA-PSK(TKIP)**, **WPA-PSK(AES)**, **WPA2-PSK(TKIP)**, **WPA2-PSK(AES)**, **WPA-PSK-MIXED**. Please refer to “Wi-Fi Protected Access (WPA)” on page 28 to learn more about these options.

Security Key: Choose a password for your wireless security. Clients will need this password in order to access your network wirelessly. If you are currently connected to the router using Wi-Fi, you will need to reconnect to the router using your new password once the wizard has been completed.

After you have clicked **Done**, a confirmation window will appear. Click **Apply** to save the configuration.

D-Link Status | Network Setup | **Wi-Fi Setup** | Applications | Device Setting

Wi-Fi Settings Client List WPS Wi-Fi Sharing

Wi-Fi Settings ?

Network Name (SSID) : dlink_DWR-932_0816

Channel : Auto Current Channel :6

Broadcast Network Name (SSID) : ☒ Enabled

Wi-Fi Security

Security Mode : WPA2-PSK(AES)

Security Key : Unmask

Apply

Wireless Security

It is recommended that you enable wireless security on your router in order to protect your wireless network from unauthorized access. You should select a wireless security protocol that is compatible with the wireless clients which will be accessing your network.

Wi-Fi Protected Access (WPA)

Wi-Fi Protected Access (WPA) is a newer and more secure encryption protocol which makes significant improvements over WEP. There are two versions of WPA; the original WPA, and the newer WPA2.

Security Mode: Select the desired authentication method from the drop-down menu:

Auto (WPA or WPA2) - The router will automatically determine the version of WPA to be used based on the client that is connecting to it.

WPA - Clients will only be able to associate with the router using the WPA standard.

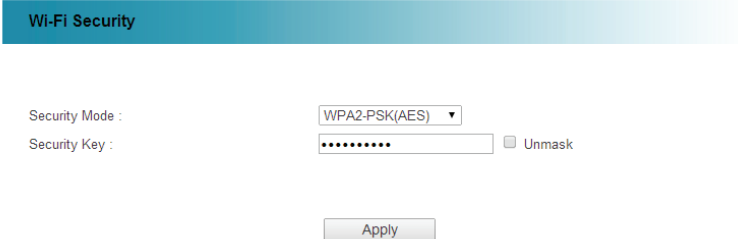
WPA2 - Clients will only be able to associate with the router using the WPA2 standard. Clients which do not support WPA2 will not be able to associate with the router.

Select the desired cipher type from the drop-down menu:

TKIP - This cipher is used by the WPA standard.

AES - A newer cipher used by the WPA2 standard. Use of this cipher type is required in order to achieve 802.11 speeds.

MIXED - A combination of both cipher types for maximum compatibility.



The image shows a screenshot of a router's web interface for configuring Wi-Fi Security. At the top, there is a blue header bar with the text "Wi-Fi Security". Below this, the "Security Mode" is set to "WPA2-PSK(AES)" in a dropdown menu. The "Security Key" is represented by a series of dots in a text field, with an "Unmask" checkbox to its right. At the bottom of the form is an "Apply" button.

Security Key: The pre-shared key is the password which clients will require in order to connect to your network. Enter a password of between 8 and 63 characters in length.

Click **Apply** to save the current settings

Client List

This page shows the current client list as well as allows you to set up MAC address filtering. The MAC filtering option allows you to allow or deny access to wireless clients based on their MAC address.

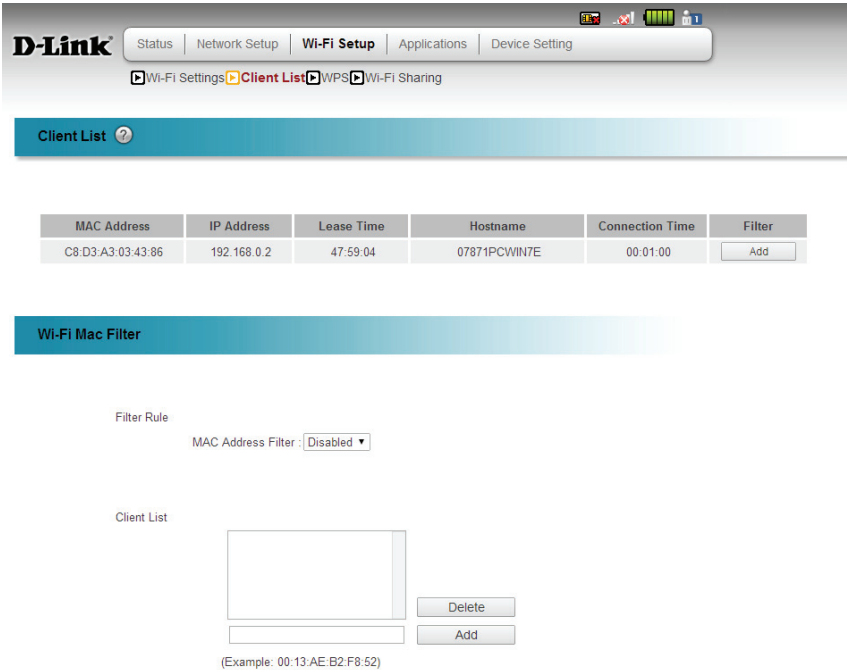
MAC Address Filter: Select the mode for the MAC filtering feature by choosing **Disable, Allow, or Deny** from the drop down box.

Client List: Enter the MAC address of the machine or station which you wish to filter.

Delete: Click the **Delete** button to delete the MAC address from the filter list.

Add: Click the **Add** button to delete the MAC address from the filter list.

Click **Apply** to save all changes and return to the Wi-Fi page.



WPS

Wi-Fi Protected Setup (WPS) enables you to quickly and securely add compatible devices to your wireless network.

PBC: Click **Start PBC** to begin the Wi-Fi Protected Setup feature.

PIN: Check the box to enable PIN protection for use with the Wi-Fi Protected Setup feature.

PIN Code: A PIN is a unique number that can be used to add the router to an existing network or to create a new network.

PIN Enrollee: If the device you are trying to add to the network was provided with a PIN number, select this option and enter the device's PIN in the field.

For extra security, a new PIN can be generated. Click **Generate** to create a new PIN. The current PIN will be shown in the field next to **Current PIN**. This PIN can be used by wireless clients to join your network using the PIN method.

WPS Status: Check the box to enable the Wi-Fi Protected Status. The current status of the WPS feature will be shown in the **Status** field below.

Click **Apply** to save and continue.

The screenshot shows the D-Link WPS Setup web interface. At the top, there is a navigation bar with tabs: Status, Network Setup, **Wi-Fi Setup**, Applications, and Device Setting. Below the navigation bar, there are links: Wi-Fi Settings, Client List, **WPS**, and Wi-Fi Sharing. The main heading is "WPS Setup".

Under the heading, there are several sections:

- PBC :** A button labeled "Start PBC".
- PIN :** A checkbox labeled "Enabled".
- PIN Code :** A text input field.
- PIN Enrollee :** A text input field containing the value "28296607".
- WPS Status :** A checkbox labeled "Configured".
- Status :** A text input field.

Buttons for "Start PIN", "Generate", "Default", and "Apply" are also visible.

Wi-Fi Sharing

Wi-Fi Sharing allows you to setup additional SSID's with the DWR-932 to allow multiple clients to connect to share an Internet connection or provide access to the built-in microSD storage.

Enable Sharing: Check this box to enable the Wi-Fi Sharing Feature.

Note: This feature is only available in SSID1 & SSID2 mode. You will need to enable this on the Wi-Fi Mode Settings page. Please see "Wi-Fi Mode Settings" on page 24 for more information on how to set this feature up.

Network Name: If you wish to change your wireless network name (SSID), enter a new name in the field provided. If you change the SSID, you may need to re-connect to the router using the new SSID before you can access your network or the configuration utility.

Broadcast Network Name (SSID): This option allows you to hide your wireless network. When this option is checked, your wireless network name is broadcasted to anyone within the range of your signal. If you are not using encryption then they could connect to your network.

Security Mode: You will need to choose one of the following options; **Disable**, **WPA-PSK(TKIP)**, **WPA-PSK(AES)**, **WPA2-PSK(TKIP)**, **WPA2-PSK(AES)**, **WPA-PSK-MIXED**. Please refer to "Wi-Fi Protected Access (WPA)" on page 28 to learn more about these options.

Security Key: Choose a password for your wireless security. Clients will need this password in order to access your network wirelessly. If you are currently connected to the router using Wi-Fi, you will need to reconnect to the router using your new password once the wizard has been completed.

D-Link Status | Network Setup | **Wi-Fi Setup** | Applications | Device Setting

Wi-Fi Settings | Client List | WPS | **Wi-Fi Sharing**

Guest Settings ?

! Wi-Fi Sharing is only available in [SSID1 & SSID2] mode, please check [here](#).

Enable Sharing : ☒ Enabled

Network Name (SSID) :

Broadcast Network Name (SSID) : ☒ Enabled

Guest Security

Security Mode :

Applications

Firewall Settings

Port Range Forward

The Port Range Forward tab allows you to configure the DWR-932 firewall settings and allow certain applications to be forwarded from the internal network, to the Internet.

Add: Click **Add** to add a new forwarding rule.

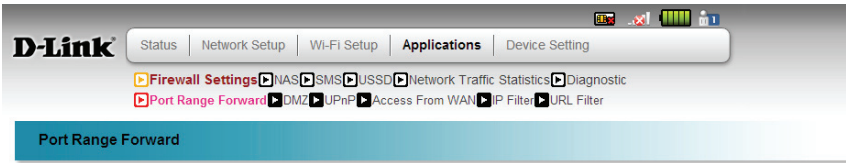
IP Address: Enter IP address to be forwarded.

Protocol: Select the protocol for the IP forward.

Port Number: Enter the starting port on the source IP.

Priority: Enter the priority for the forwarding rule being entered.

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



IP Address	Protocol	Port	Priority	Operation
------------	----------	------	----------	-----------

0 - 0 / 0 1 Page

Add



DMZ

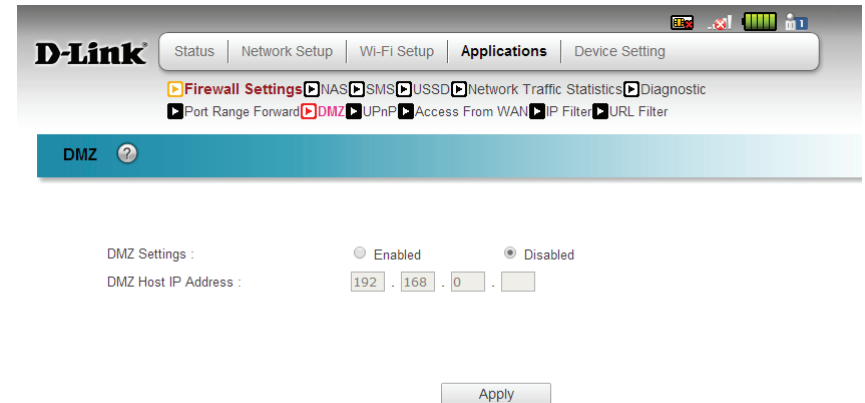
Sometimes you may want a computer exposed to the outside world for certain types of applications. If you choose to expose a computer, you can enable DMZ. DMZ is short for Demilitarized Zone. This option will expose the chosen computer completely to the outside world

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.

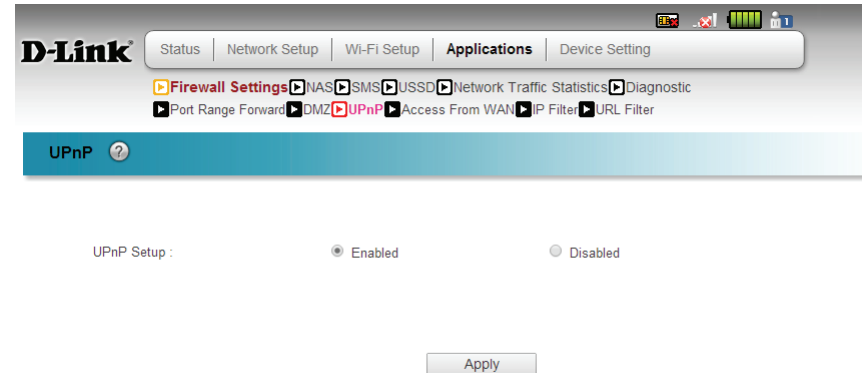
Click **Save Settings** to save your changes, or click **Don't Save Settings** to discard your changes.



UPnP

Newer devices that are network enabled may come with the ability to connect to the Internet using Universal Plug and Play (UPnP™) feature. This page allows you to enable or disable the UPnP feature of the DWR-932.

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

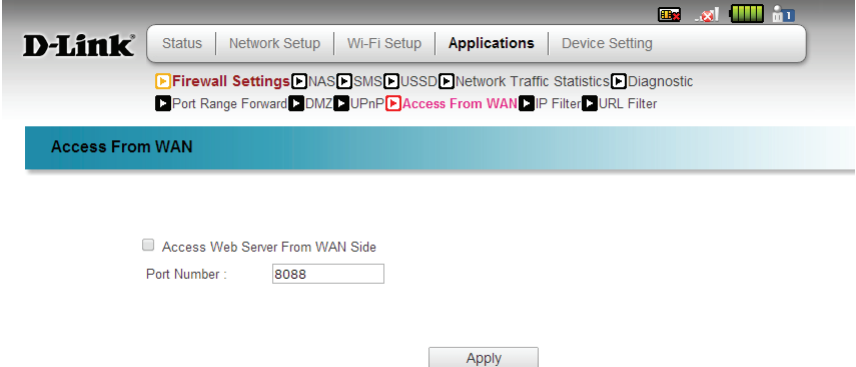


Access From WAN

The DWR-932 can allow remote administration via the internet if needed. For security purposes this feature is not enabled.

Access Web Server From WAN Side: Check this box to enable external remote access to the administration page of the DWR-932. It is highly recommended that you first setup a unique password for the administration of the DWR-932 before enabling this feature. Please see "Account" on page 50 for more information on how to setup a password.

Port Number: This is the port number used to access the router. 8088 is the port usually used for the web-management interface.



The screenshot shows the D-Link web interface for the DWR-932. The top navigation bar includes links for Status, Network Setup, Wi-Fi Setup, Applications, and Device Setting. Under the Applications tab, there are sub-links for Firewall Settings, NAS, SMS, USSD, Network Traffic Statistics, Diagnostic, Port Range Forward, DMZ, UPnP, Access From WAN (which is highlighted with a red box), IP Filter, and URL Filter. Below this, the 'Access From WAN' section is displayed. It contains a checkbox labeled 'Access Web Server From WAN Side' which is currently unchecked. Below the checkbox is a text field labeled 'Port Number' with the value '8088' entered. An 'Apply' button is located at the bottom right of the section.

IP Filter

The DWR-932 can filter certain IP address and ports. IP Filtering will help to protect your network from outside intrusions and malicious attacks.

Click **Add** to add a new filtering rule.

Policy: Choose wether to Accept or Drop.


Protocol: Select the protocol for the IP filter rule.

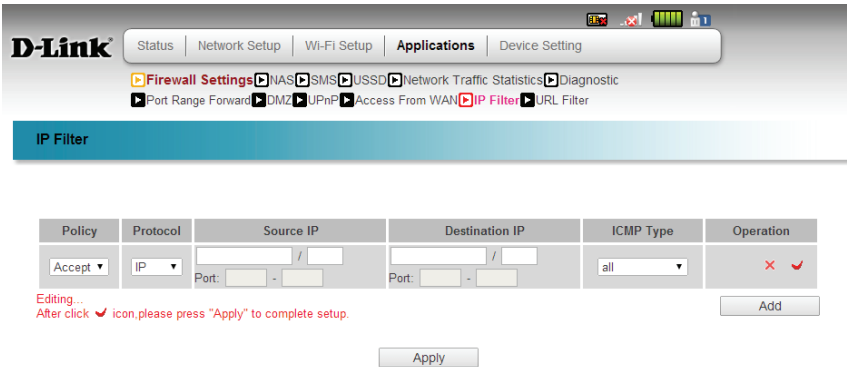
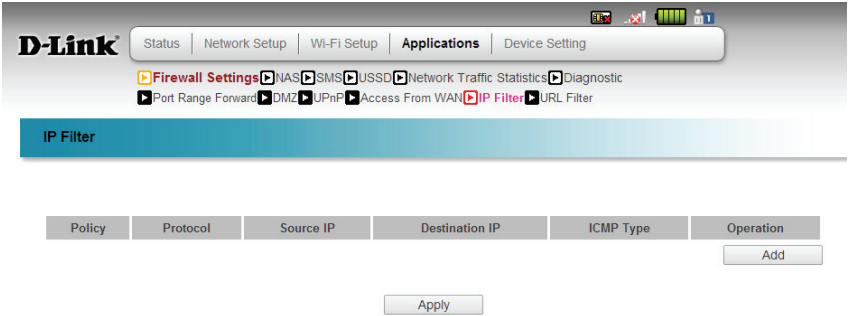
Source IP: Enter the source IP address to be filtered.

Source Port: Enter the port on the source IP.

Destination IP: Enter the destination IP address to be filtered.

Destination Port: Enter the port of the destination IP.

Click  to save the filtering rule. Click **Apply** to save the current configuration.



URL Filter

The content filter allows you to deny access to specific URLs or keywords.

Enable URL Filter: Check the box to enable URL filtering.

Keyword: Enter the URL or keyword that you wish to deny access to. If you enter a domain name, all URLs under this domain will be denied access.

Delete: Click the Delete button to remove the selected keyword.

Click **Add** to save the rule and add it to the rule table. Click **Apply** to save the current configuration.

The screenshot shows the D-Link router's web interface. At the top, there's a navigation bar with tabs: Status, Network Setup, Wi-Fi Setup, Applications, and Device Setting. Below this, a row of icons represents various settings: Firewall Settings (selected), NAS, SMS, USSD, Network Traffic Statistics, Diagnostic, Port Range Forward, DMZ, UPnP, Access From WAN, IP Filter, and URL Filter (highlighted in red). The main heading is "URL Filter". Below the heading, there's a section for "URL Filter:" with a checkbox labeled "Enabled". Underneath is a "Keyword:" label followed by a text input field. To the right of the input field is an "Add" button. Below the input field is a large, empty rectangular box, likely a table for the filtered keywords. At the bottom right of this box is a "Delete" button. At the very bottom of the page is an "Apply" button.

NAS

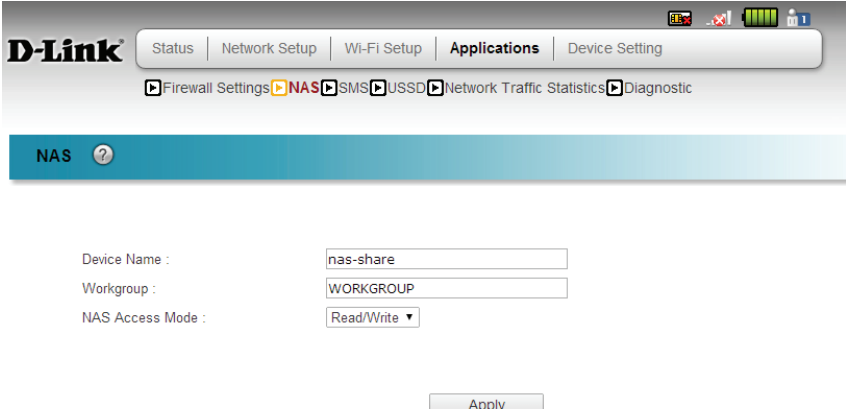
This page allows the user to use a web browser to remotely access files stored on a microSD card plugged into the DWR-932.

Device Name: Enter a name that will be used to identify the DWR-932 to other devices on the network.

Workgroup: If your network requires that the DWR-932 be a part of a Windows Workgroup in order for other devices to access it, you can enter it here.

NAS Access Mode: You can choose to allow **Read/Write, Read Only, or Disable** access to the microSD card plugged into the DWR-932.

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



The screenshot shows the D-Link web interface for the DWR-932. At the top, there's a navigation bar with tabs: Status, Network Setup, Wi-Fi Setup, Applications, and Device Setting. Below this, there's a secondary bar with icons for Firewall Settings, NAS (highlighted in red), SMS, USSD, Network Traffic Statistics, and Diagnostic. A blue header bar below that says "NAS" with a help icon. The main content area has three configuration fields: "Device Name" with the value "nas-share", "Workgroup" with the value "WORKGROUP", and "NAS Access Mode" with a dropdown menu set to "Read/Write". An "Apply" button is located at the bottom right of the configuration area.

SMS

The DWR-932 can send and receive SMS text messages through the mobile network's SMS function. In this section you can check the SIM card's inbox and outbox, as well as send new messages.

Compose

Mobile Number: Enter the phone number that you wish to send the message to. You can enter up to 50 phone numbers.

Messages: Enter the body of the message to be sent.

Click **Save as Draft** to move the message to the drafts folder.
Click **Send** to immediately send the message.

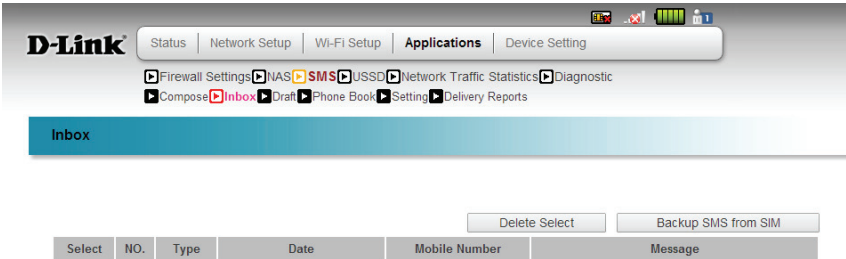
The screenshot shows the D-Link web interface for composing an SMS message. The top navigation bar includes links for Status, Network Setup, Wi-Fi Setup, Applications, and Device Setting. Below this, a secondary navigation bar lists various settings: Firewall Settings, NAS, SMS (highlighted), USSD, Network Traffic Statistics, and Diagnostic. A third navigation bar shows Compose (highlighted), Inbox, Draft, Phone Book, Setting, and Delivery Reports. The main content area is titled 'Compose' and features a 'Mobile Number' input field with a contact icon, followed by a 'Message' input field. Below the message field, there are three asterisked notes: '* Input 0 characters.', '* For pure english message, the max number of characters is 1000.', and '* For UTF-8 message, the max number of characters is 500.'. At the bottom right, there are two buttons: 'Save as Draft' and 'Send'.

Inbox

This tab shows a summary of SMS messages in the inbox.

Delete Selected: Click this button to delete the currently highlighted SMS message.

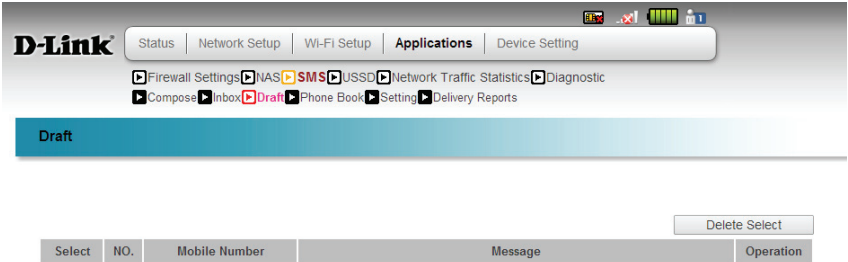
Backup SMS From SIM: Click this button if you would like to restore all SMS messages from your SIM card.



Draft

This tab shows a summary of messages in the outbox which are yet to be sent.

Delete Selected: Click this button to delete the currently highlighted SMS message.



Phone Book

This tab shows a list of all of the phone numbers and contacts that are stored in the SIM card.

Sync Contacts: Click this button to sync all of the contacts currently on the SIM card with the memory of the DWR-932.

Select All: Click this button to select all of the current contacts in the DWR-932.

Deselect: Click this button to deselect a currently selected contact.

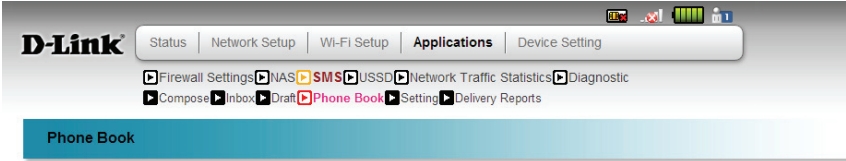
Delete Selected: Click this button delete the currently selected contact.

Add: Click this button to add a contact into the DWR-932.

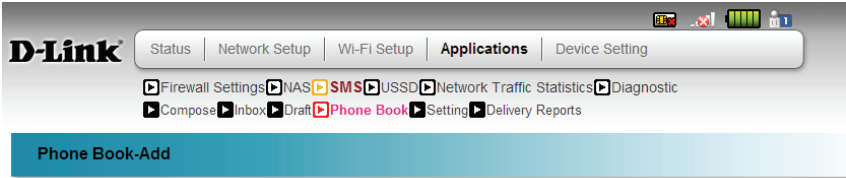
Name: Enter the name that will be associated with the phone number being added.

Mobile Number: Enter the phone number that will be associated with the name being added.

Click **Back** to return to the previous page. Click **Add** to save the current contact information into the DWR-932.



Select	Name	Mobile Number	Operation
<div>Sync Contacts</div>			
<div>Select All Deselect Delete Select Add</div>			



Name	Mobile Number
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

* For pure english name, the max number of characters is 64.

* For UTF-8 name, the max number of characters is 32.

Back Add

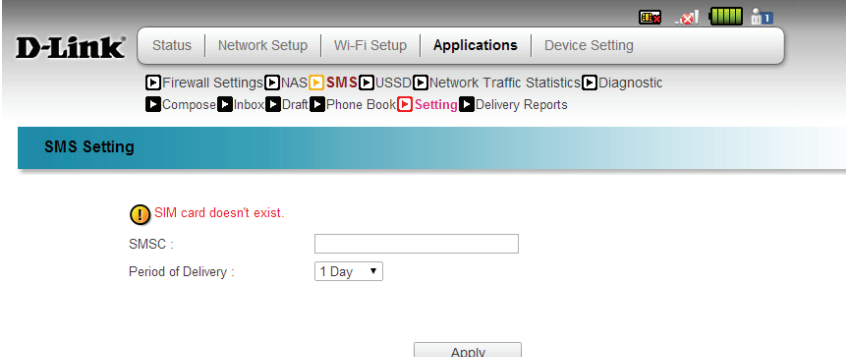
Settings

This feature will allow you to set up a SMSC number to receive SMS messages from your ISP.

SMSC Setting: Enter the number provided by your ISP and click **Save Settings**. This will enable the SMSC feature and allow you to receive SMS messages.

Period of Delivery: You can select the amount of time that an SMS message will remain on the device from the drop down menu.

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



The screenshot shows the D-Link web interface for the DWR-932 device. The top navigation bar includes links for Status, Network Setup, Wi-Fi Setup, Applications, and Device Setting. The Applications section is expanded, showing sub-links for Firewall Settings, NAS, SMS, USSD, Network Traffic Statistics, Diagnostic, Compose, Inbox, Draft, Phone Book, Setting, and Delivery Reports. The main content area is titled 'SMS Setting' and contains a warning message: 'SIM card doesn't exist.' Below this, there are two input fields: 'SMSC :' and 'Period of Delivery :'. The 'Period of Delivery :' field is a dropdown menu currently set to '1 Day'. An 'Apply' button is located at the bottom right of the form.

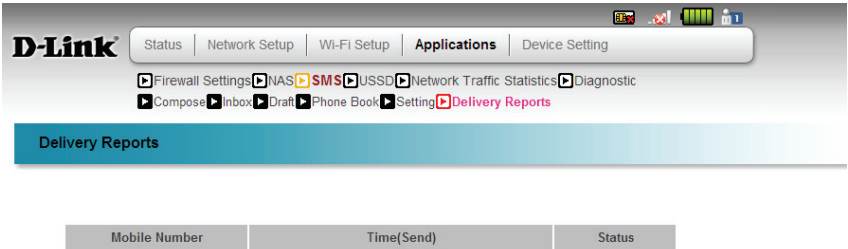
Delivery Reports

This page will show you a status of all the SMS messages that have been delivered from the DWR-932.

Mobile Number: Shows the phone number that an SMS message was delivered to.

Time (Send): Shows the timestamp of when the message was sent.

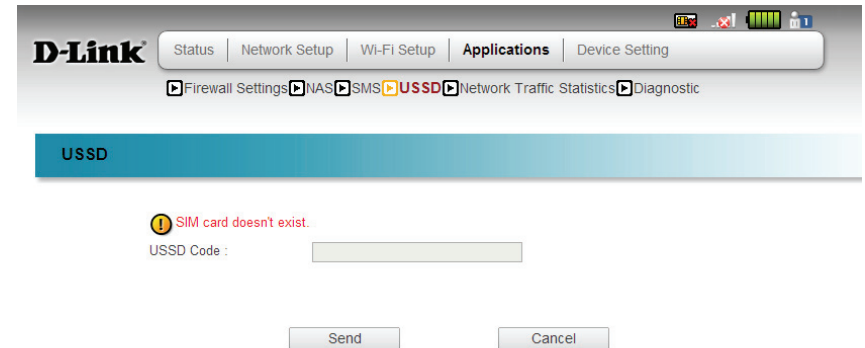
Status: Shows the status of the sent SMS message.



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 the **Send** button. This will allow you to activate applications by sending an SMS to your ISP.



Network Traffic Statistics Setup

The DWR-932 keeps a log of network traffic and can help manage usage through statistics that can be configured on this page.

Monthly Statistics Select a day of the month for the start of the monthly statistics.

Starts From:

Weekly Statistics Select either **Sunday** or **Monday** for the start of the weekly statistics.

Starts From:

Quota: Check this box to enable the network traffic quota feature.

Transmit/Receive Limit: If the Quota feature is enabled, specify the amount of usage in megabytes(MB) per month.

Reset: Click this button to reset the current statistics.

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

D-Link

Status | Network Setup | Wi-Fi Setup | **Applications** | Device Setting

Firewall Settings | NAS | SMS | USSD | **Network Traffic Statistics** | Diagnostic

Setup | Statistics

Setup ?

Monthly Statistic Starts From : (1 ~ 31)

Weekly Statistic Starts From : ☒ Sunday ☐ Monday

☐ Quota

Transmit/Receive Data Limit : (MB/Month)

Reset :

Statistics

This page shows the daily, weekly, and monthly statistics that have been logged by the DWR-932. These statistics are for the network traffic that is used with your mobile service provider.

D-Link Status | Network Setup | Wi-Fi Setup | **Applications** | Device Setting

Firewall Settings | NAS | SMS | USSD | **Network Traffic Statistics** | Diagnostic

Setup | **Statistics**

Daily (2014.02.27) ?

! This data is for reference only, actual traffic statistics provided by the carrier data as a payment basis.

Transmit Byte Count : (bytes)

Receive Byte Count : (bytes)

Total Byte Count : (bytes)

Connection Time : HH:MM:SS

Weekly (2014.02.23 ~ 2014.03.01)

Transmit Byte Count : (bytes)

Receive Byte Count : (bytes)

Total Byte Count : (bytes)

Connection Time : HH:MM:SS

Monthly (2014.02.02 ~ 2014.03.01)

Transmit Byte Count : (bytes)

Receive Byte Count : (bytes)

Total Byte Count : (bytes)

Connection Time : HH:MM:SS

Firmware Version : 01.00.07_0226

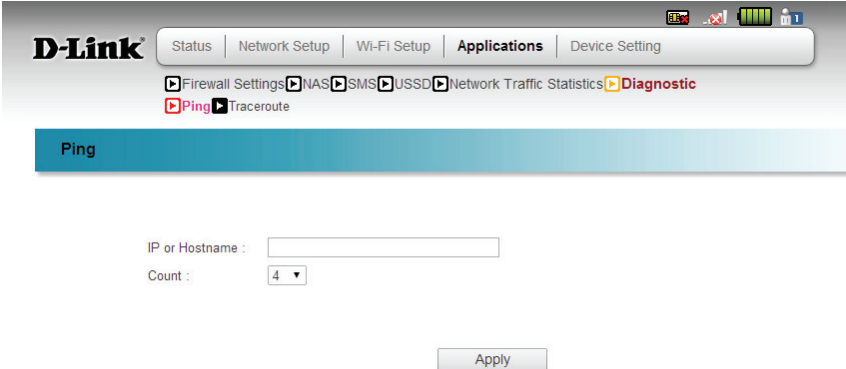
Diagnostic Ping

This page allows you to perform a ping test, which may be helpful when trying to troubleshoot connectivity problems.

IP or Hostname: Enter the IP address that you wish to Ping.

Count: Select the number of times that the ping test should ping the specified IP or hostname.

Click **Apply** to save the current configuration and begin the Ping test.



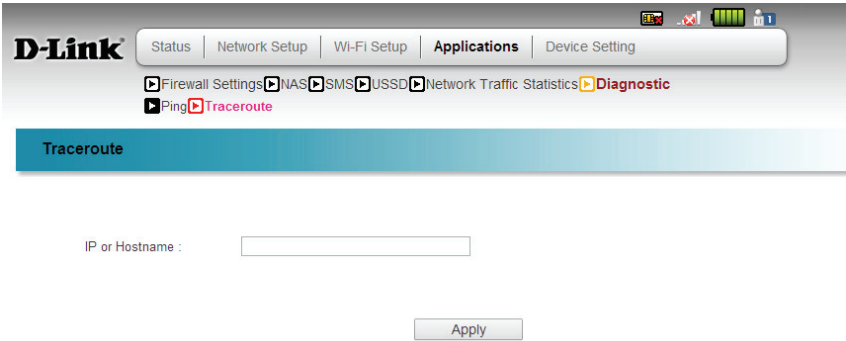
The screenshot shows the D-Link web interface. At the top, there's a navigation bar with the D-Link logo and tabs for Status, Network Setup, Wi-Fi Setup, Applications, and Device Setting. Below this, there's a sub-menu with links to Firewall Settings, NAS, SMS, USSD, Network Traffic Statistics, and Diagnostic. The Diagnostic link is highlighted. Under Diagnostic, there are two options: Ping (highlighted with a red square) and Traceroute. Below the menu, there's a blue header for the 'Ping' section. The main area contains two input fields: 'IP or Hostname : ' followed by a text box, and 'Count : ' followed by a dropdown menu showing '4'. At the bottom right, there is an 'Apply' button.

Traceroute

This page allows you to perform a traceroute test, which may be helpful when trying to troubleshoot connectivity problems.

IP or Hostname: Enter the IP address that you wish to Ping.

Click **Apply** to save the current configuration and begin the Ping test.



Device Setting

Administration

Account

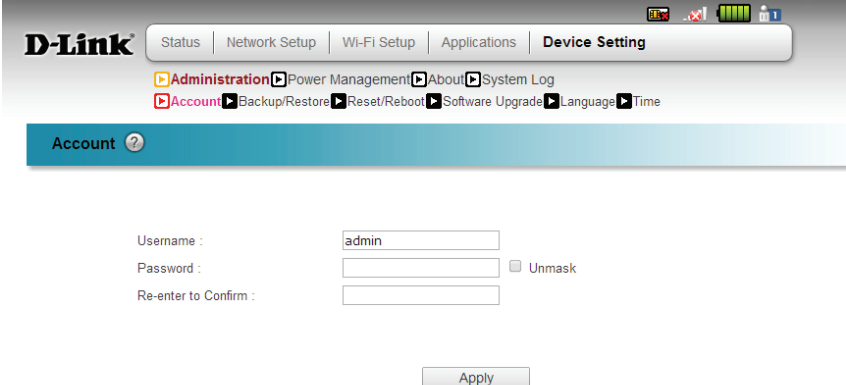
This page lets you change the configuration interface passwords for the Administrator (Admin) and User accounts.

Username: Enter the username you would like to use to access the administration feature of the DWR-932.

Password: Enter the password for this account.

Re-enter to Confirm: Type the new password again to confirm.

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



The screenshot shows the D-Link web interface. At the top, there's a navigation bar with 'D-Link' logo and tabs: Status, Network Setup, Wi-Fi Setup, Applications, and Device Setting. Below the tabs, there's a list of menu items: Administration (highlighted), Power Management, About, System Log, Account (highlighted), Backup/Restore, Reset/Reboot, Software Upgrade, Language, and Time. A blue bar below the menu items says 'Account' with a help icon. The main content area has three input fields: 'Username :' with 'admin' entered, 'Password :', and 'Re-enter to Confirm :'. There's an 'Unmask' checkbox next to the password field. At the bottom right, there's an 'Apply' button.

Backup/Restore

This page lets you backup or restore the configuration for the DWR-932.

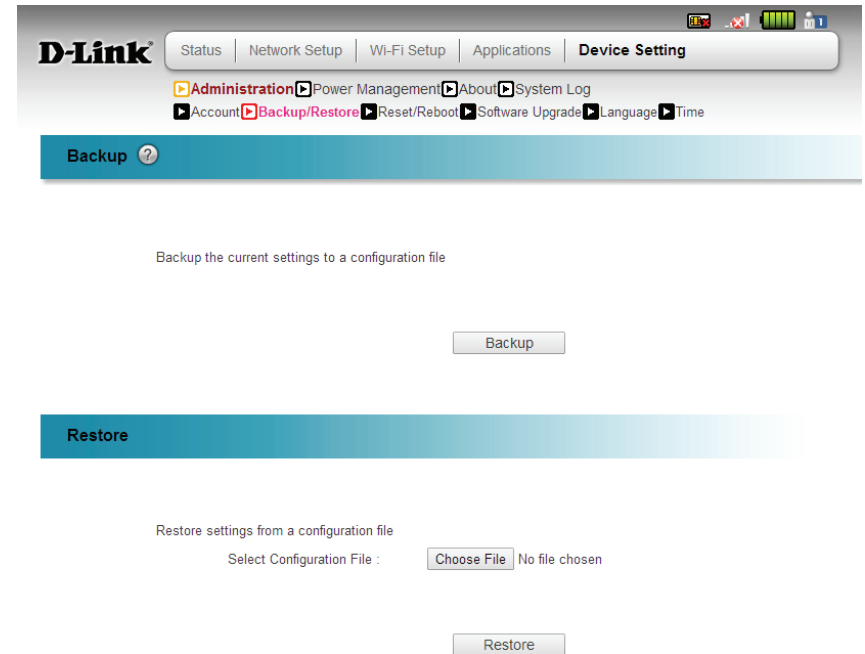
BACKUP

Backup: Click **Backup** to save the router's current configuration to a file on your computer. You will then be prompted with a "save file" dialogue, where you can choose where to save the configuration file.

RESTORE

Choose File: Click **Browse** to locate a previously saved configuration file on your computer.

Restore: Once you have located the file, click **Restore** to configure the router according to the selected configuration file.



Reset/Reboot

This page lets you backup or restore the configuration for the DWR-932.

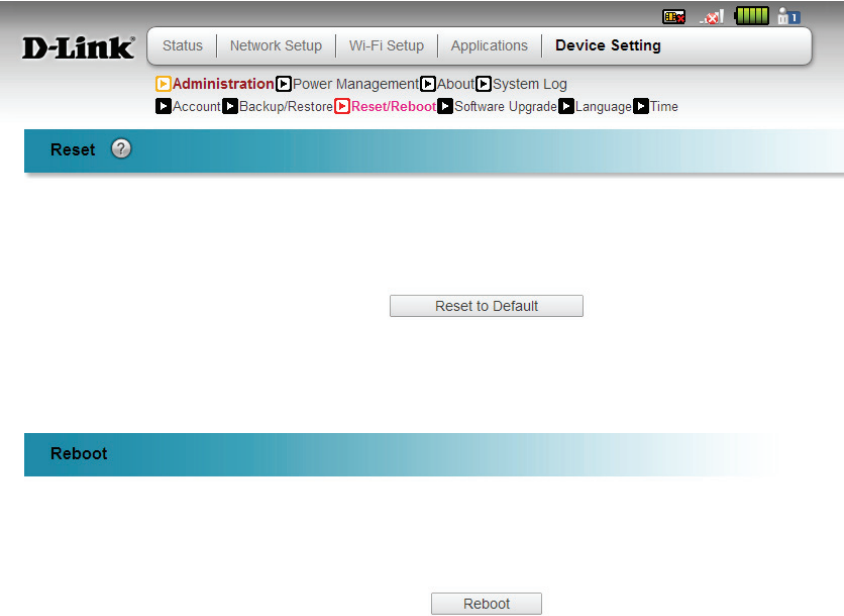
RESET

Reset to Default: Click **Reset** to restore the router’s settings to the factory defaults.

Important: All settings stored on the router will be lost following a factory reset.

REBOOT

Reboot: Click **Reboot** to power cycle the DWR-932.



Software Upgrade

You can upgrade the firmware of the router here. Make sure the firmware file you want to use is on the local hard drive of the computer. Please check your local D-Link support site or <http://support.dlink.com> for firmware updates and language packs.

SOFTWARE UPGRADE

File Location: Click **Choose File** to select the firmware file to be used.

Once the file has been located, click **Software Upgrade** to start the firmware upgrade process.

Important: All current settings will be restored to their factory defaults following a firmware upgrade.

AUTO SOFTWARE UPGRADE

Auto Software Upgrade: Choose whether to **Enable** or **Disable** the auto software upgrade feature.

Update Check: Click this button to perform a one-time check to see if there is a newer version of the firmware available.

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

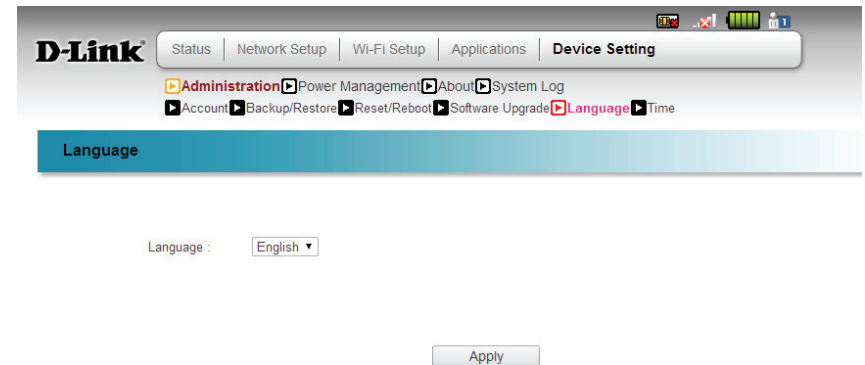
The screenshot displays the D-Link router's web management interface. At the top, the 'D-Link' logo is on the left, and navigation tabs for 'Status', 'Network Setup', 'Wi-Fi Setup', 'Applications', and 'Device Setting' are on the right. Below these, a secondary row of links includes 'Administration', 'Power Management', 'About', 'System Log', 'Account', 'Backup/Restore', 'Reset/Reboot', 'Software Upgrade' (highlighted in red), 'Language', and 'Time'. A blue header bar for the 'Software Upgrade' section contains a help icon. The main content area shows 'Current Version : 01.00.07_0226', 'File Location : Choose File No file chosen', and a 'Status :' field. A 'Software Upgrade' button is positioned below. A second blue header bar for the 'Auto Software Upgrade' section is followed by 'Auto Software Upgrade : Enable Disable' (with 'Disable' selected) and a 'Status :' field. At the bottom, 'Update Check' and 'Apply' buttons are visible.

Language

The administration interface can be displayed in a number of different languages. This page allows you to configure the display language.

Language: Select the language that you would like to use for the administration interface from the drop down menu.

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



Time

This page lets you set the time and date for the DWR-932 and also configure automatic time synchronization and daylight savings time.

TIME

SNTP: Choose to **Enable** or **Disable** automatically synchronize the time with a Simple Network Time Protocol (SNTP) server.

Primary SNTP Server: Enter a SNTP server addresses which will be used to synchronize the router's system time and date.

Secondary SNTP Server: Enter a SNTP server addresses which will be used to synchronize the router's system time and date.

Tertiary SNTP Server: Enter a SNTP server addresses which will be used to synchronize the router's system time and date.

Time Zone: Enter the time zone where you are currently using the DWR-932 to correctly set the time offset.

Synchronization Cycle: You can specify in hours how frequently the DWR-932 will update the time from a SNTP server.

TIME/DATE SETTINGS

Time/Date Settings: If you want to enter the current time manually, you can input the correct values here.

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

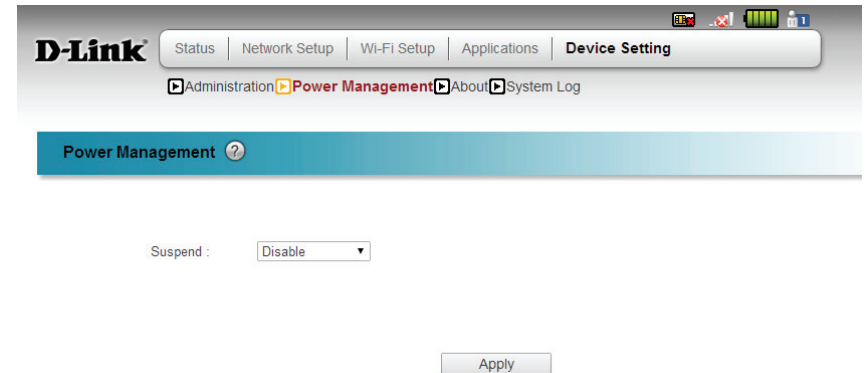
The screenshot displays the D-Link DWR-932 web interface. The top navigation bar includes links for Status, Network Setup, Wi-Fi Setup, Applications, and Device Setting. The 'Time' tab is selected, showing options to Enable or Disable SNTP synchronization. Below this, there are input fields for Primary, Secondary, and Tertiary SNTP Servers, a dropdown for Time Zone (set to Beijing/Hong Kong (GMT+8)), and a field for Synchronization Cycle (set to 12 hours). An 'Apply' button is present. The second part of the screenshot shows the 'Time/Date Settings' page, which includes fields for Year (2014), Month (2), Day (27), Hour (17), and Minute (43), with an 'Apply' button at the bottom.

Power Management

This section allows you to configure the router's automatic power-saving modes.

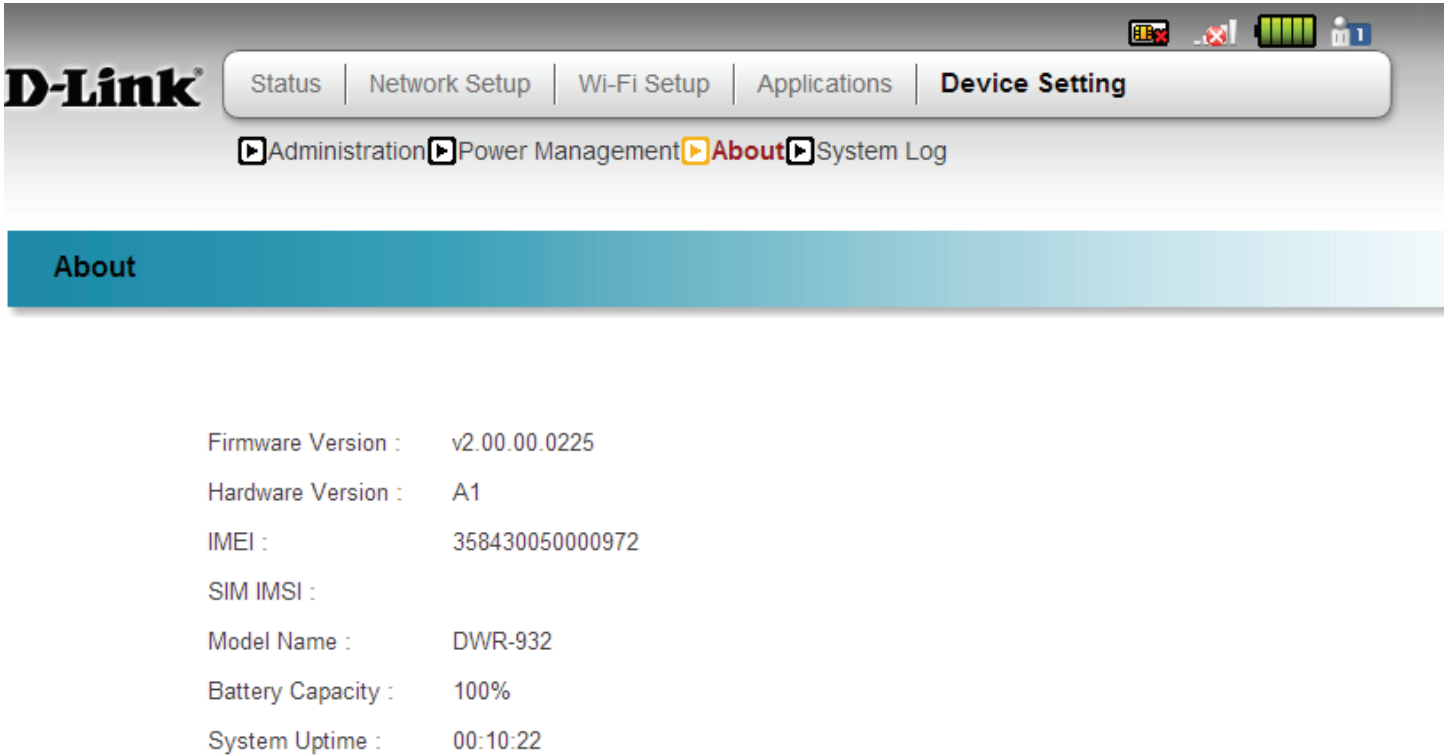
Suspend: Choose the number of minutes after which the router will enter standby mode if no activity is detected.

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



About

This page shows important system information such as the remaining battery life for the DWR-932.



System Log

The system log displays a record of all events which occur while the router is running.

VIEW LOG

Page: Choose the page of the current log you would like to view.

View All: Click this button to show the entire system log.

Save File: Click this button to save the log to a file.

Clear: Click to clear all log entries.

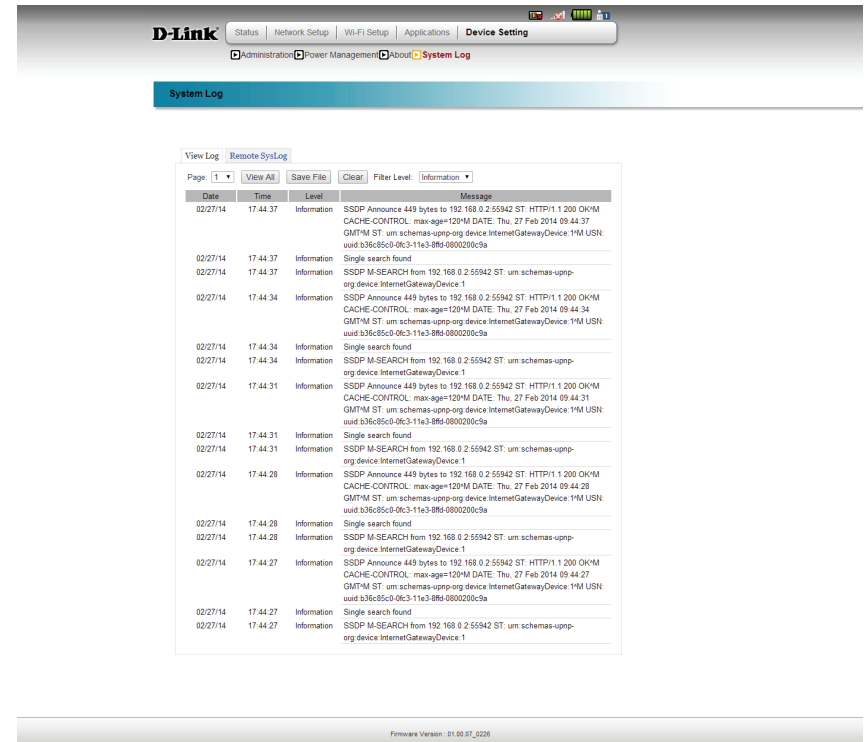
Filter Level: Select the level of log event which you wish to view from the drop-down menu.

REMOTE SYSLOG

Enable Logging to SysLog Server: Check the box to enable the remote log-keeping function.

SysLog Server IP Address: Enter the IP address of the SysLog server where the system log of the DWR-932 should be sent to.

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



Connecting to a Wireless Network

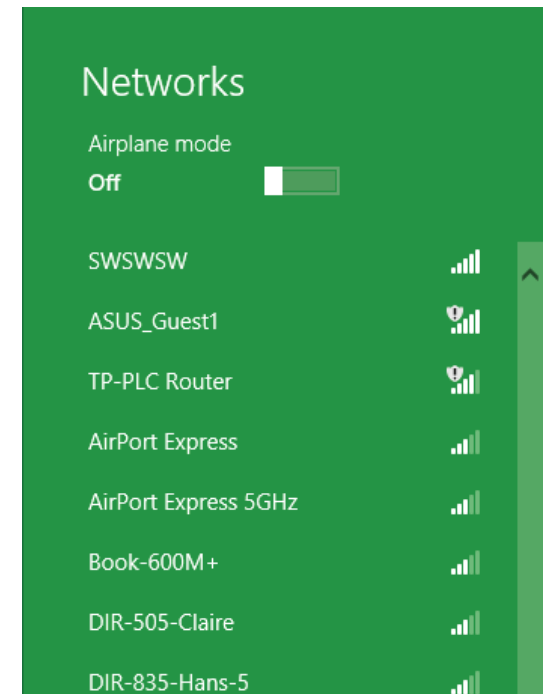
Using Windows 8

It is recommended to enable wireless security (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 security key (Wi-Fi password) being used.

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

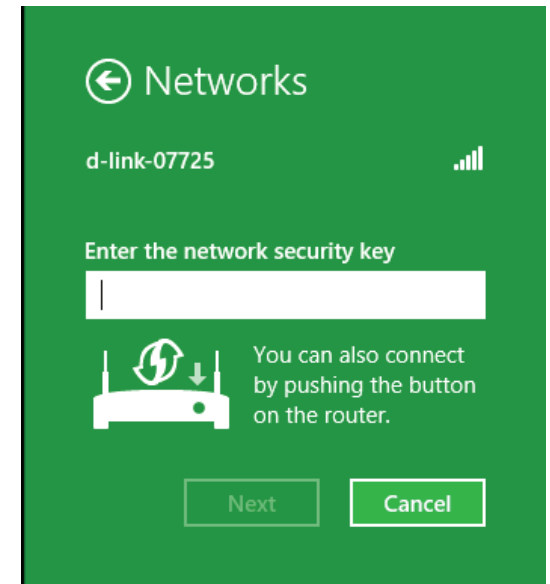


Clicking on this icon will display a list of wireless networks which are within connecting proximity of your computer. Select the desired network by clicking on the network name.

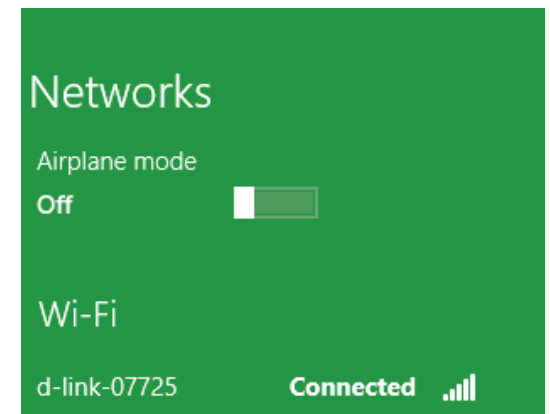


You will then be prompted to enter the network security key (Wi-Fi password) for the wireless network. Enter the password into the box and click Next.

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 at this point 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.



Connecting to a Wireless Network Using Windows 7

Windows 7 users may use the built-in wireless utility to connect to a wireless network. If you are using another company's utility or Windows 2000, 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 7 utility as seen below.

If you receive the Wireless Networks Detected bubble, click on the center of the bubble to access the utility. You can also click on the wireless icon in your system tray (lower-right corner).

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



Highlight the wireless network (SSID) you would like to connect to and click the **Connect** button.

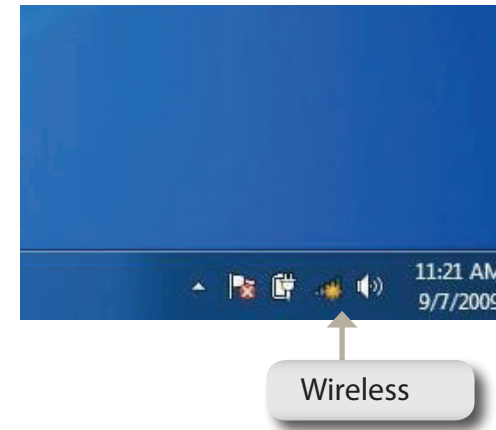
If you get a good signal but cannot access the Internet, check your TCP/IP settings for your wireless adapter. Refer to “Networking Basics” on page 76 for more information.



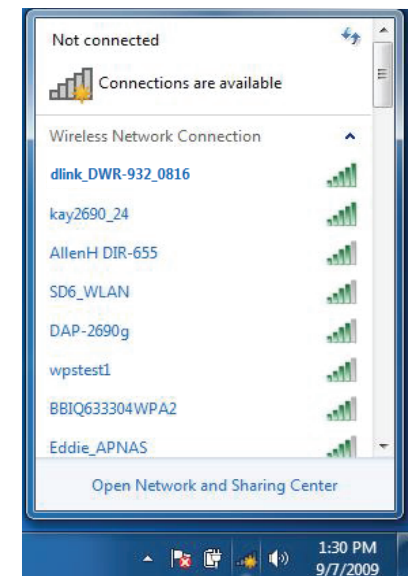
Configuring Wireless Security

It is recommended to enable wireless security (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 security key or passphrase being used.

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



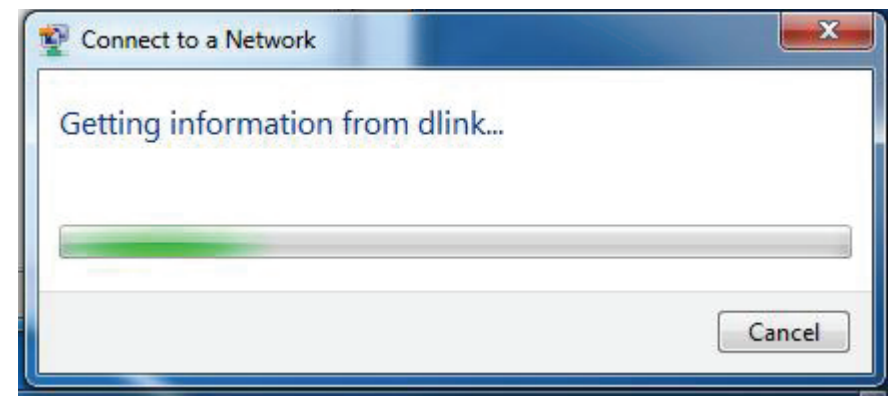
2. The utility will display any available wireless networks in your area.



3. Highlight the wireless network (SSID) you would like to connect to and click the **Connect** button.



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



5. Enter the same security key or passphrase 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 on the wireless router.



Using Windows Vista™

Windows® Vista™ users may use the built-in wireless utility. If you are using another company's utility or Windows® 2000, 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® Vista™ utility as seen below.

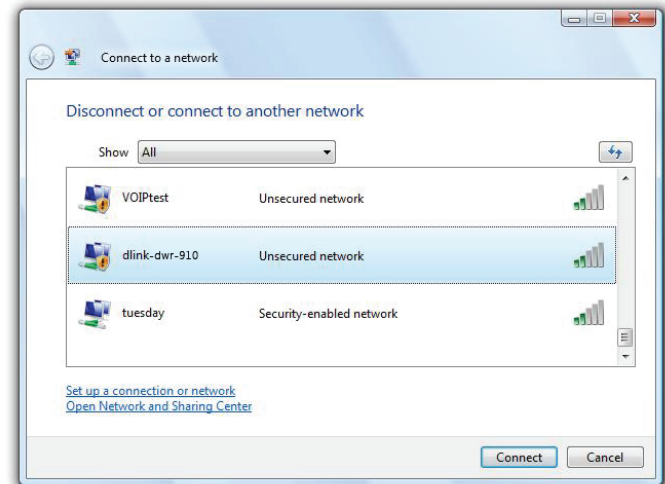
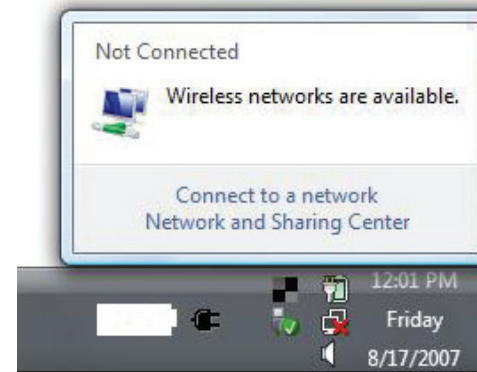
If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

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.

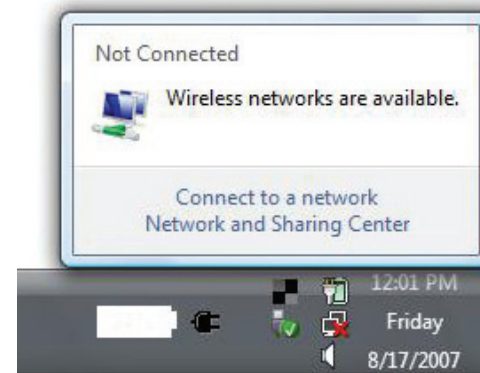
If you get a good signal but cannot access the Internet, check the TCP/IP settings for your wireless adapter. Refer to "Networking Basics" on page 76 for more information.



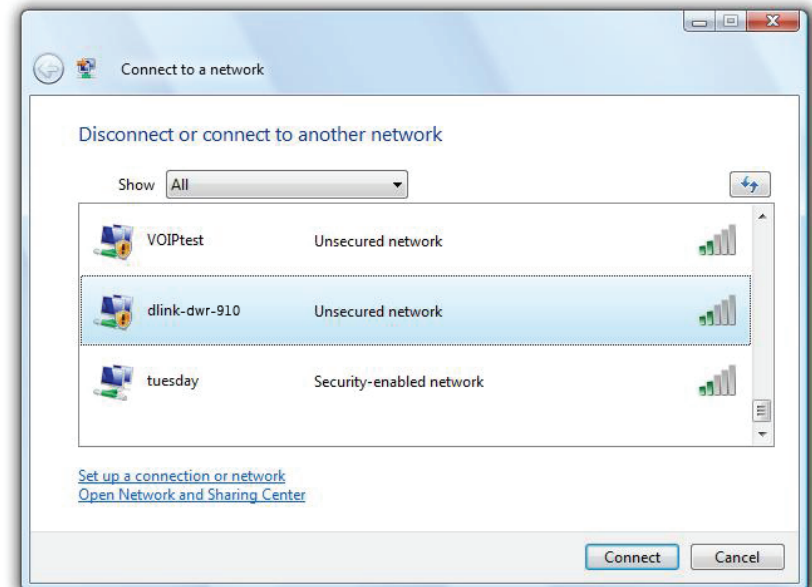
Configuring Wireless Security

It is recommended to enable wireless security (WEP/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 security 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 wireless network (SSID) you would like to connect to and click **Connect**.



3. Enter the same security key or passphrase 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 on the wireless router.



Connect to a Wireless Network Using 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 or Windows® 2000, 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.

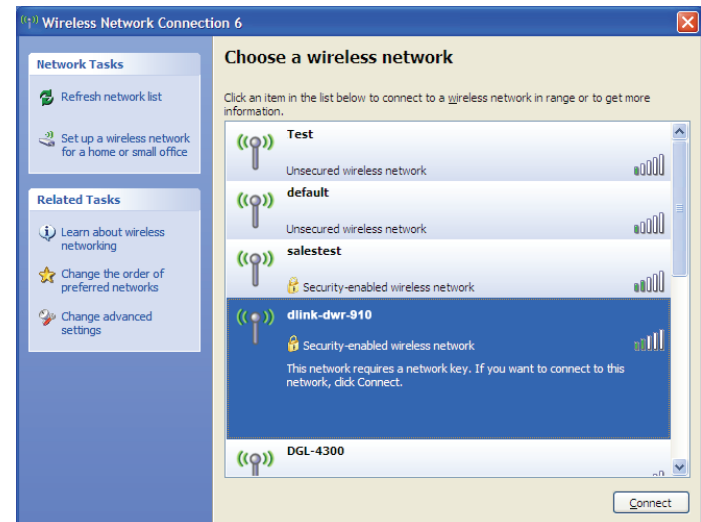
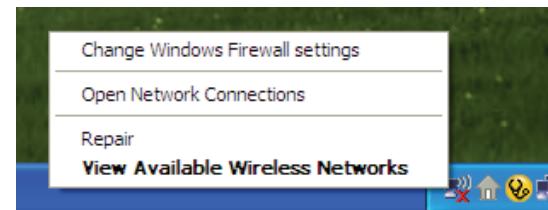
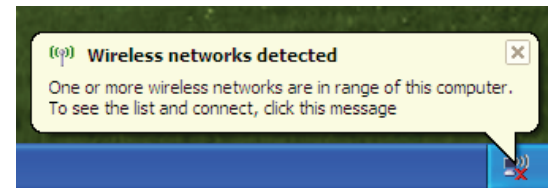
If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

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 network (displayed using the SSID) and click the **Connect** button.

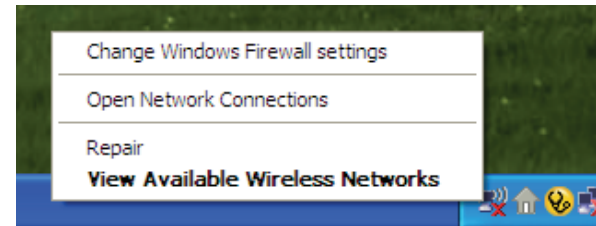
If you get a good signal but cannot access the Internet, check the TCP/IP settings for your wireless adapter. Refer to "Networking Basics" on page 76 for more information.



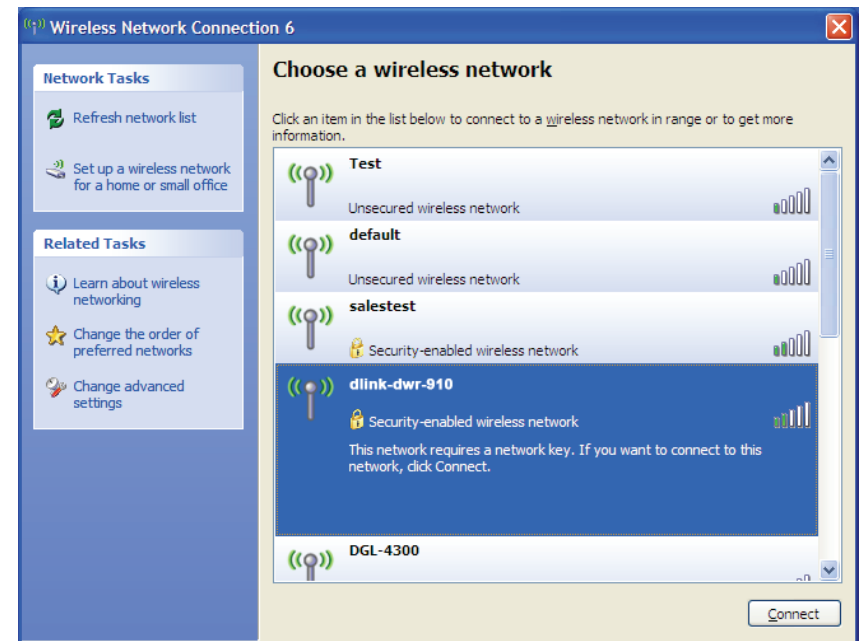
Configure WEP

It is recommended to enable WEP 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 WEP 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**.

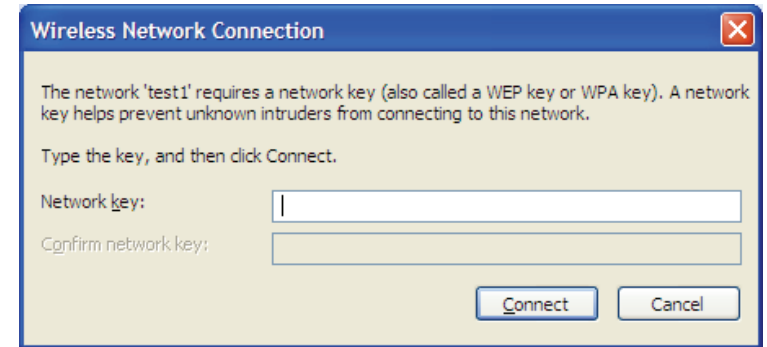


2. Highlight the wireless network (SSID) you would like to connect to and click **Connect**.



3. The **Wireless Network Connection** box will appear. Enter the same WEP key that is on your router and click **Connect**.

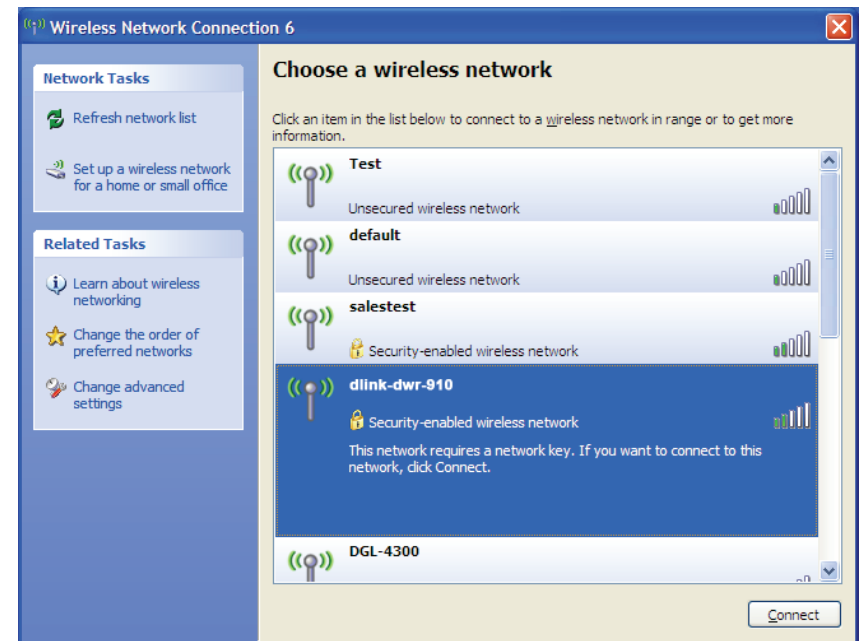
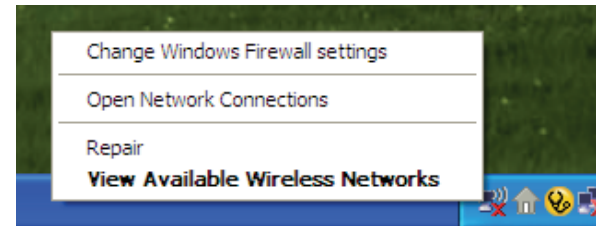
It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the WEP settings are correct. The WEP key must be exactly the same as on the wireless router.



Configure WPA-PSK

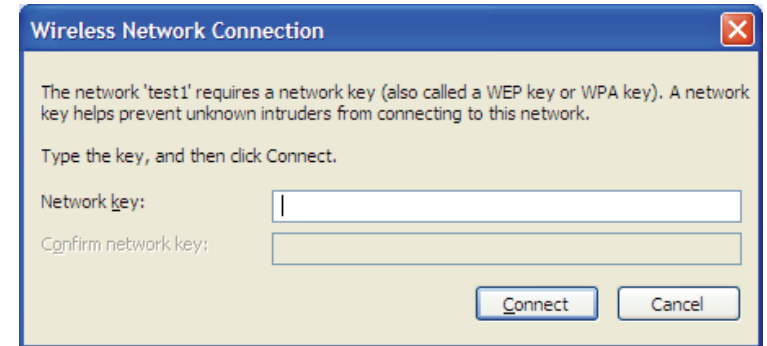
It is recommended to enable WPA on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the WPA key being used.

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 wireless network (SSID) you would like to connect to and click **Connect**.



3. The **Wireless Network Connection** box will appear. Enter the WPA-PSK passphrase 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 WPA-PSK passphrase 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-932. Read the following descriptions if you are having problems.

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

When entering the IP address of your router (192.168.0.1 for example), you are not connecting to a website on the Internet or have to be connected to the Internet. The device has the utility built-in to a ROM chip in the device itself. Your computer must be on the same IP subnet to connect to the web-based utility.

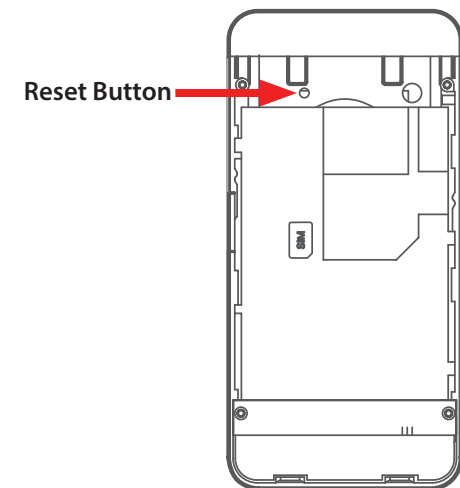
- Make sure you have an updated Java-enabled web browser. We recommend the following:
 - Internet Explorer 7 or higher, Chrome 20.0, Firefox 12.0, or Safari 4.
- If attempting to connect wirelessly, ensure that the wireless icon on the LCD display is showing. Also, ensure that you are connected to the correct SSID for your mobile router.
- Make sure that the computer you are using is not connected to any other devices (such as routers or switches) which might have the same IP address as the DWR-932, as this may cause an IP address conflict. If you have a conflict, temporarily unplug any other devices from your computer while you configure the DWR-932. You can also change the IP address of the DWR-932 in the Network section of the configuration utility. You may also need to renew your computer's IP address configuration. To do this, start the Command utility: Click on **Start** > **Run**. In the run box type **cmd** and click **OK**. (Windows Vista users type **cmd** in the **Start Search** box.) This will bring up a black screen with white text. At the command prompt, type **ipconfig /release** and wait for the process to be completed. Next, type **ipconfig /renew** which will renew your computer's IP address configuration.
- 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 **Default Level** 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 re-open it.

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

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

To reset the router, first remove the back cover of the router to expose the battery. Using a paperclip or similar object, press and hold the reset button, which is located inside the hole to the upper-left of the SIM card slot (see diagram). The DWR-932 will restore the factory default settings. Wait about 30 seconds for the router to restart before you attempt to reconnect to it. The default IP address is 192.168.0.1, and the default username is **admin** and the password should be left blank.



Networking Basics

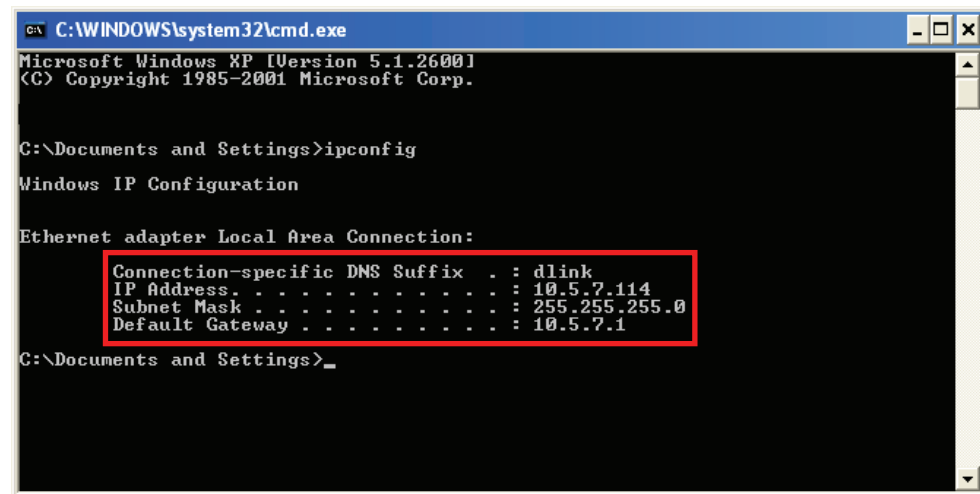
Check your IP address

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® 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.



```
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>
```

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.

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® 8 Click on **Start > Control Panel > Network and Internet Connections > Network Connections > Configure your Internet Protocol (IP) settings.**
- Windows® 7 Click on **Start > Control Panel > Network and Internet > Network and Sharing Center > Manage Network Connections.**
- 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.**

Step 2

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

Step 3

Highlight **Internet Protocol (TCP/IP)** and click **Properties.**

Step 4

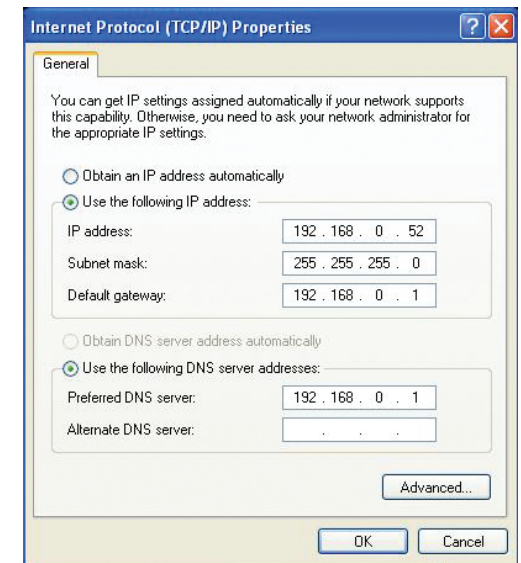
Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

Example: If the router's LAN IP address is 192.168.0.1, make your IP address 192.168.0.X where X is a number between 2 and 99. Make sure that the number you choose is not in use on the network. Set Default Gateway the same as the LAN IP address of your router (192.168.0.1).

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

Step 5

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



Technical Specifications

Radio Frequency Bands

- FDD-LTE: Band 1,3,7,8,20
- TDD-LTE Band: 38
- UMTS: B1-2100 MHz / B8-900 MHz
- GSM: 850/900/1800/1900 MHz
- LTE output power class: 23 dBm (class3)

Cellular Access

- Downlink: 100 Mbps
- Uplink: 50 Mbps

Wi-Fi Access Point

- 802.11n
- 802.11g
- 802.11b

Antenna

- One internal antenna

USB Interface

- micro USB port

USIM Slot

- Standard 6-pin SIM card interface

Status Indicators

- 1.44 inch TFT LCD display

Storage

- microSD card slot

Wireless Security

- WPA & WPA2 (Wi-Fi Protected Access)

Firewall

- Port Range Forward
- DMZ
- UPnP

Dimensions (L x W x H)

- 96.8 x 57.6 x 15 mm (3.81 x 2.26 x 0.59 inches)

Weight

- 90 g (3.17 ounces)

Operating Temperature

- 0 to 40 °C (14 to 131 °F)