USER MANUAL DWR-113

VERSION 1.00



D-Link®

WIRELESS

Preface

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Package Contents

- D-Link DWR-113 3G Wi-Fi Router
- Power Adapter
- Manual and Warranty on CD
- External Wi-Fi antenna

Note: Using a power supply with a different voltage rating than the one included with the DWR-113 will cause damage and void the warranty for this product.

System Requirements

- A compatible 3G USB modem
- Computers with Windows®, Macintosh®, or Linux-based operating systems with an installed Ethernet adapter
- Internet Explorer Version 6.0 or Netscape Navigator™ Version 6.0 and above (for configuration)

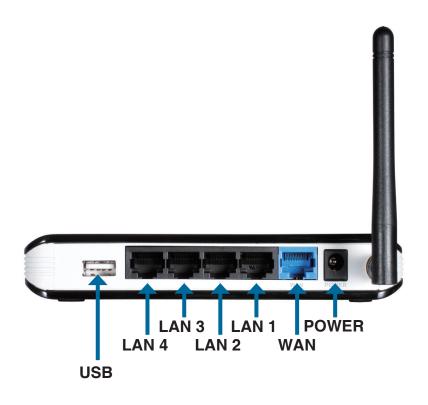
Introduction

The D-Link 3G Wi-Fi Router allows users to access worldwide mobile broadband networks. Once connected, users can transfer data, stream media, and send SMS messages. Simply connect your USB modem and share your 3G Internet connection through a secure 802.11n wireless network or using the 10/100 Ethernet port.

While accessing your 3G Internet connection, you will still have the ability to respond to SMS messages.

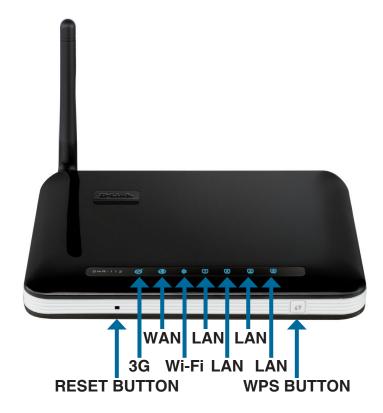
The 3G Wi-Fi Router can be installed quickly and easily almost anywhere. This router is great for situations where an impromptu wireless network must be set up, or wherever conventional network access is unavailable. The DWR-113 can even be installed in buses, trains, or boats, allowing passengers to check e-mail or chat online while commuting.

Hardware Overview Back Panel



Port	Function
USB Port	Connects to a USB modem.
LAN Port	Connects to wired computers or devices.
WAN Port	Connects to the Internet.
Power Port	Connects to the power adapter.

Hardware Overview Front Panel and LEDs



LED	Description			
	Color	Solid	Blinking	Blinking (Fast)
3G	Green	3G connection established	Data transmitting	-
WAN	Green	WAN connection established	Data transmitting	-
Wi-Fi	Green	Wi-Fi active and available	Data transmitting	Device in WPS mode
LAN 1 - LAN 4	Green	Ethernet connection established	Data transmitting	-

Installation

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

Connect to Your Network

Note: Ensure that your DWR-113 3G Wi-Fi Router is disconnected and powered **off** before performing the installation steps below.

- 1. Connect a USB modem to the **USB** port on the back of the router.
- 2. Insert a LAN network cable into the **LAN** port on the back of the router. Plug the other end of the LAN cable into the LAN port of your computer or laptop. The Ethernet LED will turn green if the Ethernet connection is successfully established.

Note: The DWR-113 3G Wi-Fi Router LAN Port is "Auto-MDI/MDIX." Therefore, patch or crossover Ethernet cables can be used.

3. Configure the device using the setup utility.

Wireless Installation Considerations

The DWR-113 can be accessed using a wireless connection from virtually anywhere within the operating range of your wireless network. Keep in mind, however, that the quantity, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through, may limit the range. 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 in 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 web-based configuration utility.

Web-based Configuration Utility

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



Type **Admin** and then enter the password. By default, the password is blank.

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

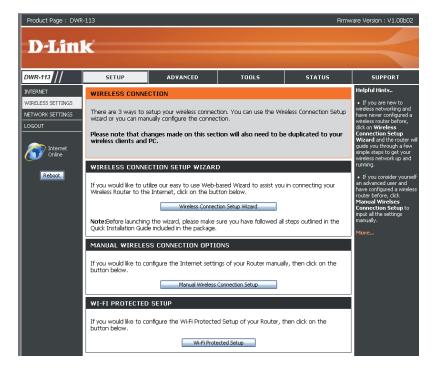


Setup Wizard

The setup wizard guides you through the initial setup of your router. There are two ways to setup your Internet connection. You can use the Web-based Internet Connection Setup Wizard or you can manually configure using the Manual Internet Connection Setup wizard.

Click Internet Connection Setup Wizard to begin.

If you want to enter your settings without running the wizard, click **Manual Internet Connection Setup** and skip to page 13.



Internet Connection Setup Wizard

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

Click **Next** to continue.



Create a new password and then click Next to continue.

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

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

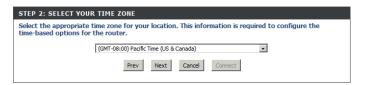
Password:

Verify Password:

Prev Next Cancel Connect

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

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



Select the Internet connection type. The connection types are explained on the following page. If you are unsure of the correct connection type, you may have to 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-113 supports several kinds of WAN interfaces, allowing you to assign either a WAN or a WWAN(3G) connection as the Backup WAN. If the Primary WAN is down or unavailable, configure the Backup WAN to **Enable**, and all the traffic will be routed through Backup WAN. This feature is called **WAN Failover**. You can use WAN Failover if you need redundancy to your Internet connection or any other network.

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 clent.

Username / Password Connection (L2TP)
L2TP clent.

GConnection
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.

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

	Choose this if your Internet connection automatically provides you with an IP Address. Most cable modems use this type of connection. See page 16 for information about how to configure this type of connection.
•	Choose this option if your Internet connection requires a username and password to connect. Most DSL modems use this style of connection. See page 17 for information about how to configure this type of connection.
•	Choose this option if your Internet connection requires Point-to-Point Tunneling Protocol (PPTP). See page 18 for information about how to configure this type of connection.
	Choose this option if your Internet connection requires Layer 2 Tunneling Protocol (L2TP). See page 19 for information about how to configure this type of connection.
	Choose this option if your Internet Setup Provider provided you with IP Address information that has to be manually configured. See page 21 for information about how to configure this type of connection.

You have completed the Setup Wizard.



Click Connect to save your settings.

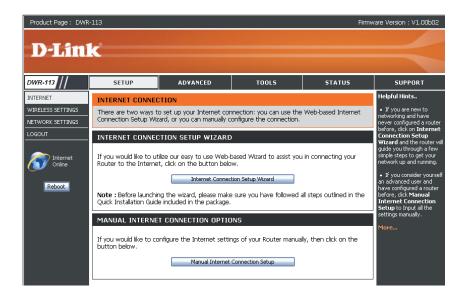
A popup will appear, to confirm your settings.

Click **OK** to save your settings.

Manual Internet Connection Setup

Click Manual Internet Connection Setup to begin.

If you want to configure your router to connect to the Internet using the wizard, click **Internet Connection Setup Wizard** and refer to page 9.



Internet Connection Internet Connection Type

Several different Internet Connection types can be selected depending upon the specifications of your Internet Service Provider (ISP).

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

Failover Internet This connection can serve as a **Connection is:** backup for your default connection.

Host Name: Enter the name of the Internet host to be used as the backup

connection.

Primary DNS Server: Enter the primary DNS server.

Secondary DNS Server: Enter the secondary DNS server.

MTU: Set the MTU (the default value is

1500).

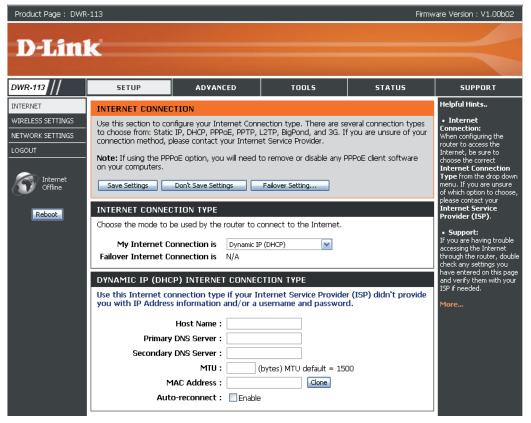
MAC Address: Manually enter the MAC address or

click Clone to copy the PC's MAC

address.

Auto-reconnect: Tick this check box to enable auto-

reconnect.



Dynamic IP (DHCP)

This section will help you to obtain IP Address information automatically from your ISP. Use this option if your ISP didn't provide you with IP Address information and/or a username and password.

Host Name: (Optional) Required by some ISPs.

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.

You may need to change the Maximum Transmission MTU (Maximum **Transmission Unit):**

value is 1500.

Unit (MTU) for optimal performance. The default



The default MAC Address is set to the Internet port's physical interface MAC address on the Broadband Router. It is not recommended that you change the default MAC address unless required by your ISP. You can use the Clone Your PC's MAC Address button to replace the Internet port's MAC address with the MAC address

of your PC.

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

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

DYNAMIC IP (DHCP) INTERNET CONNECTION TYPE Use this Internet connection type if your Internet Service Provider (ISP) didn't provide you with IP Address information and/or a username and password. Host Name : ROUTER Primary DNS Server: 0.0.0.0 Secondary DNS Server: 0.0.0.0 (optional) MTU: 1500 (bytes) MTU default = 1500 MAC Address: 00-21-9B-57-2A-9C Restore MAC Auto-reconnect :

Enable Save Settings Don't Save Settings

PPPoE

Choose this Internet connection if your ISP provides you PPPoE account.

Username: The username/account name that your ISP provides

to you for PPPoE dial-up.

Password: Password that your ISP provides to you for PPPoE

dial-up.

Verify Password: Fill in with the same password in Password field.

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

IP Address: (Optional) Fill in if provided by your ISP. If not, keep

the default value.

Primary DNS Server: (Optional) Fill in if provided by your ISP. If not, keep

the default value.

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

MAC Address: MAC address of WAN interface. You can also copy MAC address of your PC to its WAN interface by pressing

Clone Your PC's MAC button. The Restore MAC button will reset the router to its default MAC address.

Maximum Idle Time: The amount of time of inactivity before disconnecting established PPPoE session. Set it to zero or enable

Auto-reconnect will disable this feature.

Maximum Transmission

Unit (MTU): The default setting of PPPoE is 1492.

Auto-reconnect: The device will dial-up PPPoE connection automatically.

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

Enter the information provided by your Internet Service Provider (ISP). Username: Password: Verify Password: Service Name: (optional) IP Address: 0.0.0.0 Primary DNS Server: 0.0.0.0 (optional) Secondary DNS Server: 0.0.0.0 (optional) MAC Address : 00-00-00-00-01-00 Save Restore MAC Maximum Idle Time: 300 MTU: 1492 (bytes) MTU default = 1492 Auto-reconnect :

Enable Save Settings Don't Save Settings

PPTP

Choose this Internet connection if your ISP provides you PPTP account.

Address Mode: Choose Static IP only if your ISP assigns you an IP

address. Otherwise, please choose Dynamic IP.

PPTP IP Address: Enter the information provided by your ISP.

(Only applicable for Static IP PPTP.)

PPTP Subnet Mask: Enter the information provided by your ISP.

(Only applicable for Static IP PPTP.)

PPTP Gateway IP Address: Enter the information provided by your ISP.

(Only applicable for Static IP PPTP.)

PPTP Server IP Address: IP address of PPTP server.

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

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

Verify Password: Fill in with the same password in Password field.

Reconnect Mode: Choose Always-on when you want to establish PPTP connection all the time. If you choose Connect-on-

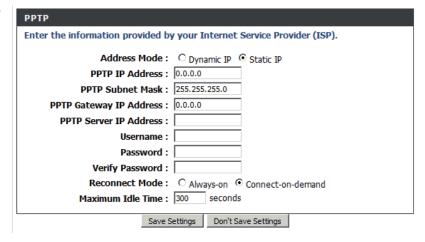
demand, the device will establish PPTP connection when local users want to surf Internet, and disconnect if

no traffic after time period of Maximum Idle Time.

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.

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



L2TP

Choose this Internet connection if your ISP provides you L2TP account.

Address Mode: Choose Static IP only if your ISP assigns you an IP

address. Otherwise, please choose Dynamic IP.

L2TP IP Address: Enter the information provided by your ISP.

(Only applicable for Static IP L2TP.)

L2TP Subnet Mask: Enter the information provided by your ISP.

(Only applicable for Static IP L2TP.)

L2TP Gateway IP Address: Enter the information provided by your ISP.

(Only applicable for Static IP L2TP.)

L2TP Server IP Address: IP address of L2TP server.

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: Fill in with the same password in Password field.

Reconnect Mode: Choose Always-on when you want to establish L2TP connection all the time. Choose Connect-on-demand the

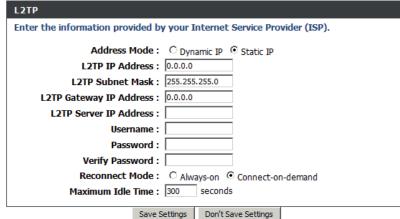
device will establish L2TP connection when local users want to surf Internet, and disconnect if no traffic after

time period of Maximum Idle Time.

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

feature.

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



Save Settings Don't Save Settings

17

3G

Choose this Internet connection if you already use a SIM card for 3G Internet service from your Telecom company. The fields here may not be necessary for your connection. The information on this page should only be used if required by your service provider.

Account/Profile Name: Fill in a name to indicate the following 3G

configuration.

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

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

Dialed Number: Enter the number to be dialed.

Authentication: PAP, CHAP, or Auto detection. The default

authentication method is Auto.

APN: (Optional) Enter the APN information.

PIN: Enter the PIN associated with your SIM card.

Reconnect Mode: Auto or Manual. Connect to 3G network automatically or manually.

Maximum Idle Time: The time of no activity to disconnect established 3G session. Set it to zero or choose Auto in Reconnect Mode

to disable this feature.

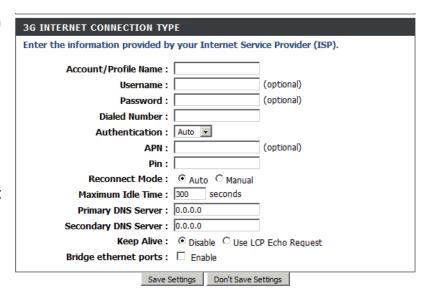
Primary DNS Server: (Optional) Fill in if provided by your ISP. If not, keep the default value.

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

Keep Alive: Disable or Use LCP Echo Request. It depends on ISP requirement.

Bridge Ethernet Ports: Activate this feature to change Ethernet WAN port to LAN port.

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



Static IP

Choose this Internet connection if your ISP assigns you a static IP address.

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

for optimal performance. The default value is 1500.

Maximum Transmission Unit (MTU)

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

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

STATIC IP ADDRESS INTERNET CONNECTION TYPE Enter the static address information provided by your Internet Service Provider (ISP). IP Address: 0.0.0.0 Subnet Mask: 255.255.255.0 Default Gateway: 0.0.0.0 Primary DNS Server: 0.0.0.0 Secondary DNS Server: 0.0.0.0 (bytes) MTU default = 1500 MTU: 1500 MAC Address: 00-00-00-01-00 Restore MAC Save Don't Save Settings Save Settings

Wireless Settings

This section will help you to manually configure the wireless settings of your router. Please note that changes made on this section may also need to be duplicated on your Wireless Client.

WIRELESS NETWORK SETTINGS

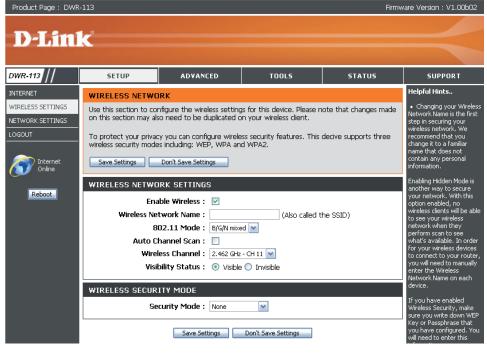
Enable Wireless:

Select this checkbox to enable wireless access. When you set 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. The default name is "dlink DWR-113".

802.11 Mode: B/G/N mixed: Enable this mode if your network contains a mix of 802.11b and 802.11g devices.

> G mode: Enable this mode if your network has only 802.11g devices. If you have both 802.11b and 802.11g wireless clients, disable this mode.

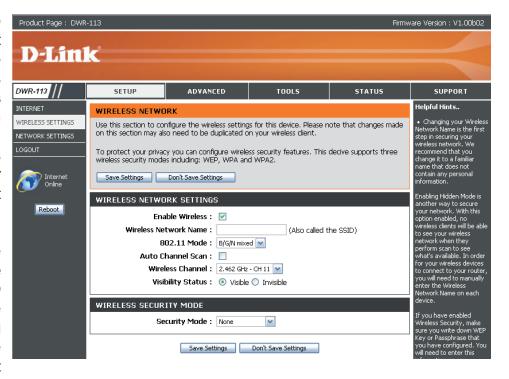


Auto Channel Scan: A wireless network uses specific channels in the wireless spectrum to handle communication between clients. Some channels in your area may experience interference from other electronic devices. Choose the clearest channel to help optimize the performance and coverage of your wireless network.

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

Wireless Channel: Indicates the channel setting for the DWR-113. By default the channel is set to 11. This can be changed to fit the channel setting for an existing wireless network or to customize your wireless network. Click Auto Channel Scan to automatically select the channel that it will operate on. This option is recommended because the router will choose the channel with the least amount of interference.

Visibility Status: Select Invisible if you do not want the SSID of your wireless network to be broadcasted by DWR-113. The SSID of your router will not be seen by Site Survey utilities. Therefore while setting up your wireless clients, you will have to manually enter your SSID to connect to the router.



WIRELESS SECURITY MODE

Security Mode:

This device supports three wireless security modes, WEP, WPA-Personal, WPA-Enterprise or None. WEP is the original wireless encryption standard. WPA provides a higher level of security and WPA-Personal does not require an authentication server. When WPA enterprise is enabled, the router uses EAP (802.1x) to authenticate clients via a remote RADIUS server.

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

Network Settings Router Settings

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

Router IP Address: Enter the IP address of 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

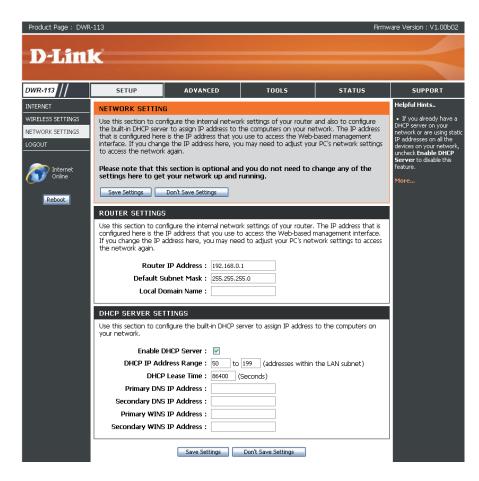
to get into the configuration utility.

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

DHCP Server Settings

The DWR-113 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 is 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 starting and ending

IP address for the server's IP

assignment.

DHCP Lease Time: The time period for the IP address

lease. Enter the Lease time in

minutes.

Primary DNS IP Address: Primary DNS IP Address: assign

a primary DNS Server to DHCP

clients.

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

Enable DHCP Server:

DHCP IP Address Range:

DHCP Lease Time:

1440 (minutes)

Primary DNS IP Address

Secondary DNS IP Address

0.0.0.0

Primary WINS IP Address

0.0.0.0

Secondary WINS IP Address

0.0.0.0

Secondary WINS IP Address

0.0.0.0

Save Settings

Don't Save Settings

Secondary DNS IP Address: Secondary DNS IP Address: assign a DNS Server to DHCP clients.

Primary WINS IP Address: Primary WINS IP Address: assign a primary WINS Server to DHCP clients.

Secondary WINS IP

Address: Secondary WINS IP Address: assign a WINS Server to DHCP clients.

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

Virtual Server

The device can be configured as a virtual server so that users can access services such as Web or FTP via the public (WAN) IP address of the router.

Well-known Services: This contains a list of pre-defined

services.

Copy to: Copies the rule to the line of the

specified ID.

Use schedule rule: You may select Always On or choose

the number of a schedule rule that you

have defined.

VIRTUAL SERVERS LIST

ID: Identifies the virtual server.

Server IP: Port: Enter the last digits of the IP address

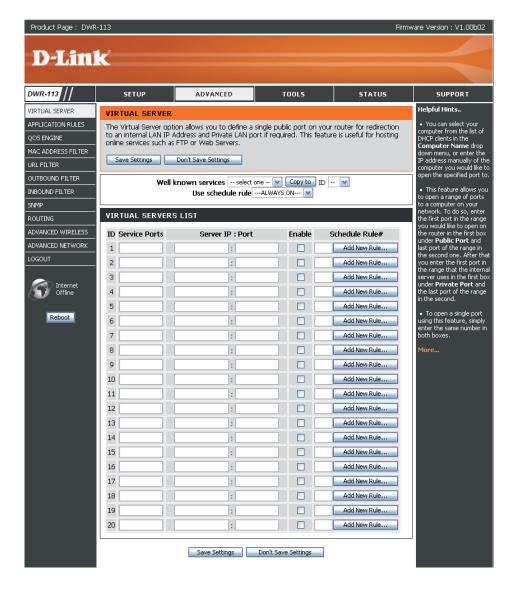
of the computer on your local network that you want to allow the incoming service. In the next box, enter the port number that you would like to open.

Enable: Select this box to enable the rule.

Schedule Rule #: Specify the schedule rule number.

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

to discard your changes.



Application Rules

Some applications require multiple connections, such as Internet gaming, video conferencing, Internet telephony and others. These applications have difficulties working through NAT (Network Address Translation). **Applications Rules** allow some of these applications work with the DWR-113.

APPLICATION RULES

Popular Applications: Select from a list of popular

applications.

Copy to ID: Copies the predefined application

rule to the line of the specified

ID.

ID: Identifies the rule.

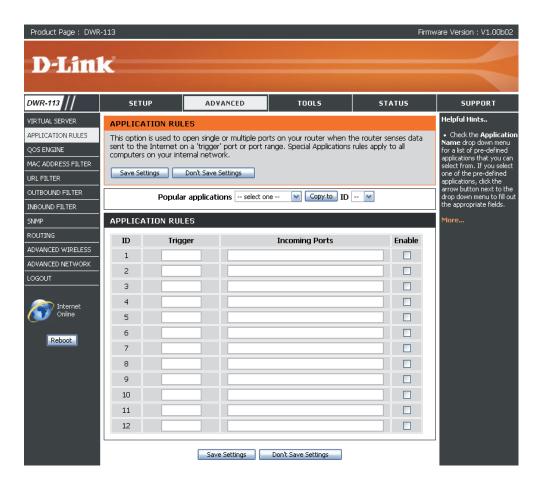
Trigger: The name of the trigger.

Incoming Ports: Specify the incoming port for the

trigger rule.

Enable: Select this box to enable the

rule.



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

QoS Engine

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

QoS ENGINE SETUP

Enable QoS Packet Filter: Select this box to enable the QoS

Packet Filter.

Upstream Bandwidth: Specify the maximum upstream

bandwidth here (e.g. 400 kbps).

QoS RULES

ID: Identifies the rule.

Local IP: Ports: Specify the local IP address and

then specify the port after the colon.

Remote IP: Ports: Specify the remote IP address and

then the port after the colon.

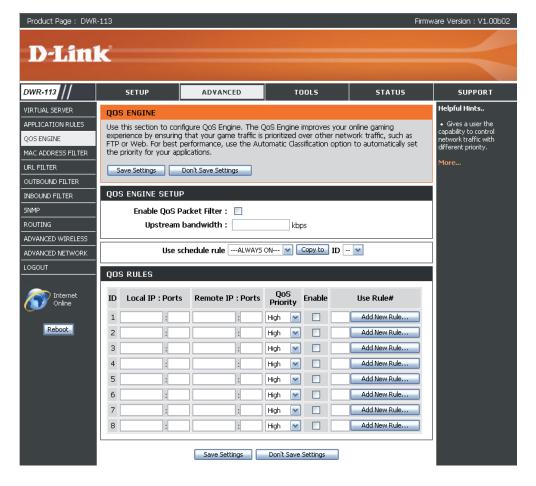
QoS Priority: Select Low, Normal, or High.

Enable: Select a checkbox to enable the

particular QoS rules individually.

Click Save Settings to save your

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



MAC Address Filter

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

MAC FILTERING SETTINGS

MAC Address Control: Select this box to enable Mac Filtering.

Connection Control: Wireless and wired clients with C selected

can connect to this device and **allow/deny** connections from unspecified MAC addresses.

Association Control: Wireless clients with A selected can associate to

the wireless LAN; and allow/deny connections

from unspecified MAC addresses.

MAC FILTERING RULES

ID: Identifies the rule.

MAC Address: Specify the MAC Address of the computer to

be filtered.

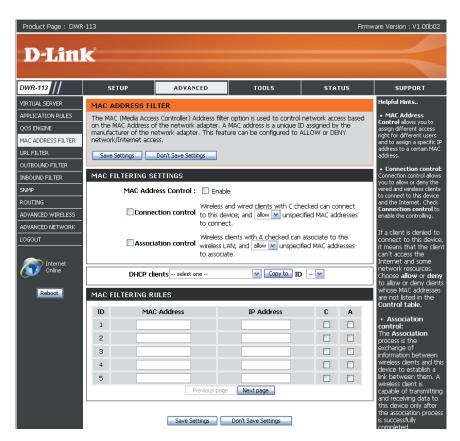
IP Address: Specify the last section of the IP address.

Wake On LAN: Click Trigger to configure Wake On LAN.

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

A: If this box is selected, the rule will follow the connection control setting specified in MAC filtering settings.

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



URL Filter

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

URL Filtering: Select this box to enable URL

Filtering.

URL FILTERING RULES

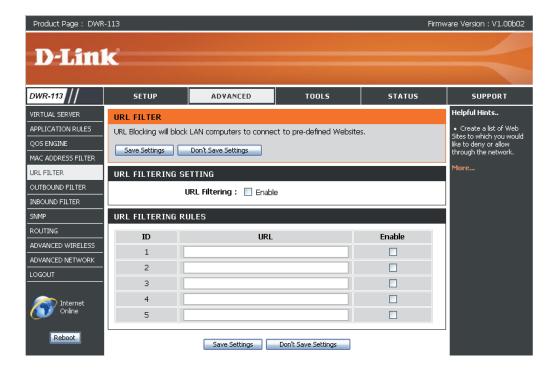
ID: Identifies the rule.

URL: Enter URL that you would like to

block.

Enable: Click to enable the specific URL

filter.



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

Outbound Filter

Outbound Filter enables you to control what packets are allowed to pass the router. Outbound filter applies on all outbound packets.

OUTBOUND FILTER SETTING

Outbound Filter: Select this box to Enable the filter.

Use Schedule Rule: You may select Always On or

choose the number of a schedule

rule that you have defined.

Copy to ID: Copies the predefined filter to the

specified ID

OUTBOUND FILTER RULES LIST

ID: Identifies the filter.

Source IP: Ports: Specify the local IP address and then

specify the port after the colon.

Destination IP: Ports: Specify the remote IP address and

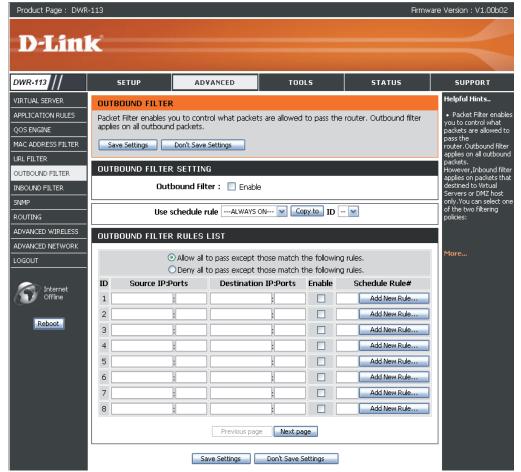
then the port after the colon.

Enable: Select this box to enable the filter.

Schedule Rule #: Specify the schedule rule number.

Previous Page: Go back to the previous filter page.

Next Page: Advance to the next filter page.



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

Inbound Filter

Inbound Filter enables you to control what packets are allowed to pass the router. Inbound filter only applies to packets that are destined for Virtual Servers or DMZ hosts.

INTBOUND FILTER SETTING

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

Use Schedule Rule: You may select Always On or

choose the number of a schedule

rule that you have defined.

Copy to ID: Copies the predefined filter to the

specified ID

INBOUND FILTER RULES LIST

ID: Identifies the filter.

Source IP : Ports: Specify the local IP address and then

specify the port after the colon.

Destination IP: Ports: Specify the remote IP address and

then the port after the colon.

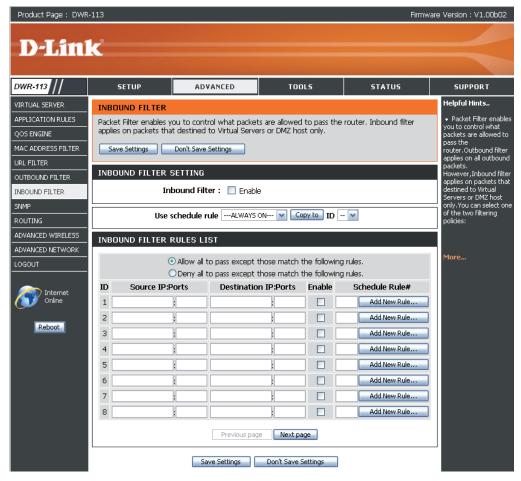
Enable: Select this box to enable the filter.

Schedule Rule #: Specify the schedule rule number.

Previous Page: Go back to the previous filter page.

Next Page: Advance to the next filter page.

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



SNMP

SNMP (Simple Network Management Protocol) is a widely used network monitoring and control protocol that reports activity on each network device to the administrator of the network. SNMP can be used to monitor traffic and statistics of the DWR-113. The DWR-113 supports SNMP v1 or v2c.

SNMP

SNMP Local: Select **Enabled** to allow local SNMP

administration. Select **Disabled** to disallow local SNMP administration.

SNMP Remote: Select **Enabled** to allow local SNMP

administration. Select **Disabled** to disallow local SNMP administration.

Get Community: Enter the password public in this

field to allow "Read only" access to network administration using SNMP. You can view the network, but no configuration is possible with this

setting.

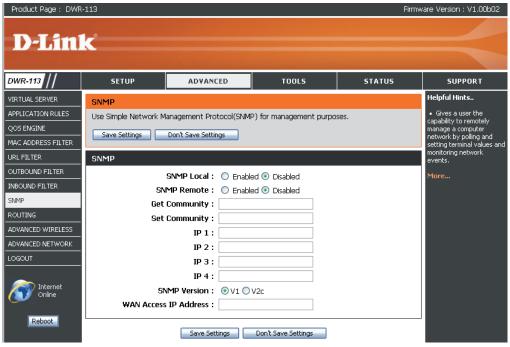
Set Community: Enter the password private in this

field to gain "Read and Write" access to the network using SNMP software.

IP 1, IP 2, IP 3, IP 4: Enter up to four IP addresses of any trap targets on your network.

SNMP Version: Select the SNMP version of your system.

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



Routing

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

RIP SETTING

RIP: Select this box to enable routing.

RIPv1: Protocol in which the IP address is routed through the internet.

RIPv2: Enhanced version of RIPv1 with added features such as Authentication, Routing Domain, Next Hop Forwarding, and Subnetmask Exchange.

ROUTING RULES

ID: Identifies the rule.

Destination: Enter the IP of the specified network that you

want to access using the static route.

Subnet Mask: Enter the subnet mask to be used for the

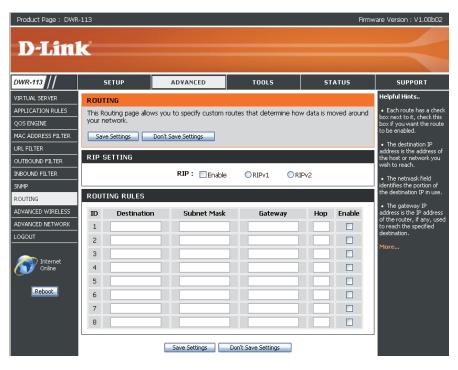
specified net work.

Gateway: Enter the gateway IP address to the specified network.

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

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

Enable: Select this box to enable the rule.



Advanced Wireless

Advanced Wireless 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: Beacons are packets sent by an Access Point to

synchronize a wireless network. Specify a value. 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: 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 3.

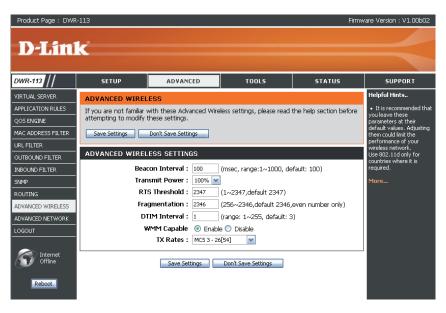
WMM Capable: WMM (Wi-Fi Multimedia) is QoS (Quality of Service) system for your wireless network. Enable this option to

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 **Auto**.

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



Advanced Network

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

UPnP

Enable UPnP: Click Enable UPnP to use the Universal Plug and Play (UPnP™) feature. UPnP provides compatibility with networking equipment, software and peripherals.

WAN PING

Enable WAN Ping Respond:

Select the box to allow the WAN port to be "pinged." Blocking the Ping option may provide some extra security from hackers.



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

Admin

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

ADMINISTRATOR

New Password: Enter a password that the admin

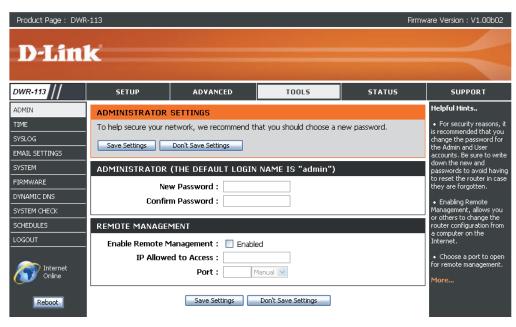
account will use to access the router's management interface.

Confirm Password: Confirm the chosen password.

REMOTE MANAGEMENT

Remote Management:

Remote management allows the DWR-113 to be configured from the Internet using a web browser. A username and password is still required to access the Web-Management interface. Usually only a member of your network can



browse the built-in web pages to perform Administrator tasks. This feature enables you to perform Administrator tasks from the remote (Internet) host.

IP Allowed to Access:

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

This is the port number used to access the router. Example: 8080 is the port used for the Web-Management **Port:** interface.

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

Time

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

Time: Displays the current time and date

of the DWR-113.

Time Zone: Select the appropriate Time Zone

from the drop-down box.

Automatically synchronize Select this checkbox to automatically with Internet time server: synchronize the DWR-113 with an

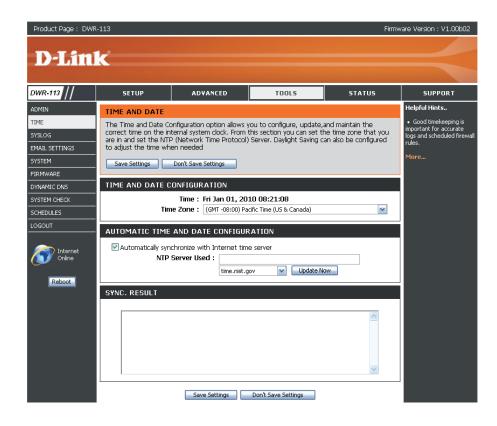
Internet time server.

NTP Server Used: Choose the NTP Server used for

synchronizing time and date.

Sync. Result: Shows the result of the last time

synchronization.



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

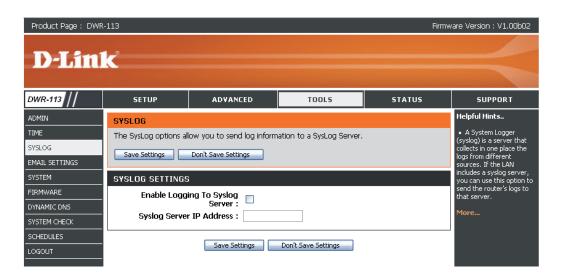
Syslog

The DWR-113 keeps a running log of events and activities occurring on the router. You may send these logs to a SysLog server on your network.

Enable Logging to Syslog

Select this box to send the router **Server:** logs to a Syslog Server.

Syslog Server IP Address: Enter the address of the Syslog server that will be used to send the logs. You may also select your computer from the dropdown box (only if you want to receive an IP address from the router via DHCP).



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

E-mail Settings

E-mail Settings allows you to send the system log files, router alert messages, and firmware update notifications to an e-mail address.

Enable E-mail Notification: When this option is enabled, router

activity logs are e-mailed to a

designated e-mail address.

SMTP Sever IP and Port: Enter the SMTP server IP address

followed by a colon and the port

number (e.g. 123.123.123.1:25).

SMTP Username: Enter the SMTP username.

SMTP Password: Enter the SMTP password.

Send E-mail Alert to: Enter the e-mail address where you

would like the e-mail sent to.

E-mail Subject: Enter a subject for the e-mail.

E-mail Log Now: Click this button to access the e-mail log.

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

