

**NOTE:** This guide covers only the most common situations. Please refer to the full User Manual on the Router CD-ROM if your network LAN has any of the following:

- another connected router
- an existing DHCP Server
- PCs using Fixed (Static) IP Addresses



# 802.11g Wireless Router

Multi-function wireless router  
with 4-Port Fast Ethernet switch

WEP-72104G-1



## User's Guide



## Regulatory notes and statements

### **Wireless LAN, Health and Authorization for use**

Radio frequency electromagnetic energy is emitted from Wireless LAN devices. The energy levels of these emissions however are far much less than the electromagnetic energy emissions from wireless devices like for example mobile phones. Wireless LAN devices are safe for use frequency safety standards and recommendations. The use of Wireless LAN devices may be restricted in some situations or environments, for example:

- On board of airplanes, or
- In an explosive environment, or
- In case the interference risk to other devices or services is perceived or identified as harmful

In case the policy regarding the use of Wireless LAN devices in specific organizations or environments (e.g. airports, hospitals, chemical/oil/gas industrial plants, private buildings etc.) is not clear, please ask for authorization to use these devices before operating the equipment.

### **Regulatory Information/disclaimers**

Installation and use of this Wireless LAN device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications made to this device not expressly approved by the manufacturer may void the user's authority to operate the equipment. The Manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device, of the substitution or attachment. Manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from failing to comply with these guidelines.

### **USA-FCC (Federal Communications Commission) statement**

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of this device.

### **FCC Radio Frequency Exposure statement**

This Wireless LAN radio device has been evaluated under FCC Bulletin OET 65 and found compliant to the requirements as set forth in CFR 47 Sections 2.1091, 2.1093, and 15.247 (b) (4) addressing RF Exposure from radio frequency devices. The radiated output power of this Wireless LAN device is far below the FCC radio frequency exposure limits. Nevertheless, this device shall be used in such a manner that the potential for human contact during normal operation is minimized.

When nearby persons has to be kept to ensure RF exposure compliance, in order to comply with RF exposure limits established in the ANSI C95.1 standards, the distance between the antennas and the user should not be less than 20 cm.

### **FCC Interference Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the distance between the equipment and the receiver.

3. Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

#### **Export restrictions**

This product or software contains encryption code that may not be exported or transferred from the US of Canada without an approved US Department of Commerce export license.

#### **Safety Information**

Your device contains a low power transmitter. When device transmits, it sends out radio frequency (RF) signal.

**CAUTION:** To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body. Use on the supplied antenna. Unauthorized antenna, modification, or attachments could damage the transmitter and may violate FCC regulations.

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

#### **CE Mark Warning**

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

#### **Protection requirements for health and safety – Article 3.1a**

Testing for electric safety according to EN 60950 has been conducted. These are considered relevant and sufficient.

#### **Protection requirements for electromagnetic compatibility – Article 3.1b**

Testing for electromagnetic compatibility according to EN 301 489-1, EN 301 489-17 and EN 55024 has been conducted. These are considered relevant and sufficient.

#### **Effective use of the radio spectrum – Article 3.2**

Testing for radio test suites according to EN 300 328-2 has been conducted. These are considered relevant and sufficient.

#### **CE in which Countries where the product may be used freely:**

Germany, UK, Italy, Spain, Belgium, Netherlands, Portugal, Greece, Ireland, Denmark, Luxembourg, Austria, Finland, Sweden, Norway and Iceland.

France: except the channel 10 through 13, law prohibits the use of other channels.



# TABLE OF CONTENTS

---

<b>ABOUT THIS GUIDE.....</b>	<b>V</b>
Purpose .....	v
Overview of this User's Guide .....	v
<b>INTRODUCTION.....</b>	<b>1</b>
Applications:.....	1
Features:.....	1
<b>UNPACKING AND SETUP.....</b>	<b>3</b>
Unpacking.....	3
Setup .....	3
<b>HARDWARE INSTALLATION.....</b>	<b>4</b>
Front Panel.....	4
Rear Panel.....	5
Hardware connections .....	6
Connect the Router using LAN .....	6
Connect the Router using Wireless LAN .....	7
Check the installation .....	7
<b>PC NETWORK TCP/IP SETTING.....</b>	<b>8</b>
Windows 95/98/ME.....	8
Windows 2000.....	9
Windows XP.....	10
<b>WIRELESS ROUTER CONFIGURATION.....</b>	<b>11</b>
Login to the Wireless Router through WLAN.....	11
Login to the Wireless Router through LAN .....	11
Using the Web Browser.....	11
Quick Setup .....	11
Advance Setup .....	20
2.1 LAN Setting .....	20
2.1.1 LAN & DHCP Server .....	20
2.1.2 WAN .....	20
2.1.3 Password .....	21

2.1.4 Time.....	22
2.2 Wireless .....	23
2.2.1 Basic .....	23
2.2.2 Authentication .....	24
2.2.3 Advanced .....	25
2.3 Status .....	26
2.3.1 Device Information.....	26
2.3.2 Log.....	27
2.3.3 Log Setting .....	28
2.3.4 Statistic .....	29
2.3.5 Wireless .....	30
2.4 Routing .....	31
2.4.1 Static .....	31
2.4.2 Dynamic.....	31
2.4.3 Routing Table .....	32
2.5 Access.....	33
2.5.1 MAC Filters .....	33
2.5.2 Protocol Filter .....	33
2.5.3 IP Filter .....	34
2.5.4 Virtual Server .....	35
2.5.5 Special AP .....	35
2.5.6 DMZ .....	36
2.5.7 Firewall Rule .....	37
2.6 Management .....	39
2.6.1 Remote Management.....	39
2.7 Tools .....	39
2.7.1 Reset .....	39

## ***ABOUT THIS GUIDE***

---

Congratulations on your purchase of this Unicom's 802.11g Wireless Router. This integrated access device combines Internet gateway functions with wireless LAN and a Fast Ethernet switch. It provides a complete solution for Internet surfing and office resource sharing plus it is easy to install and maintain.

---

### **Purpose**

This manual discusses how to install and configure the 802.11g Wireless Router.

---

### **Overview of this User's Guide**

---

**Introduction.** Describes the Wireless Router and its features.

**Unpacking and Setup.** Helps you get started with the basic installation of the Wireless Router.

**Identifying External Components.** Describes the front panel, rear panel, and LED indicators of the Wireless Router.

**Connecting the Router.** Explains how to can connect the Wireless Router to your xDSL/Cable Modem.

**Technical Specifications.** Lists the technical, general, physical, and environmental specifications and the performance settings of the Wireless Router.









## **INTRODUCTION**

---

With the explosive growth of the Internet, accessing information and services at any time, anywhere, has become a standard requirement for the modern family. The era of the standalone computer is ending. Networking technology is now commonplace and is often included in new computers.

Unicom's Wireless Broadband Router combines Internet gateway functions with Wireless LAN (WLAN) and a Fast Ethernet switch. Designed for the small business and home, it eliminates the need for a separate modem and ISP line for each computer while providing a ready connection for all computers, wired or wireless.

Broadband network access, such as DSL and Cable, is also gaining ground. Since multiple lines would be impractical and expensive, there is a need to share one legal IP address over a single Internet connection to link the home with the Internet.

Using a shared Internet connection through Unicom's Wireless Broadband Router can solve the problem of network access costs. All linked computers can make full use of broadband capabilities over this shared connection.

Unicom's Wireless Broadband Router not only comes equipped with a wide range of features, but it can also be installed and configured quickly and easily right out of the box. It supports a simple Local Area Network and Internet access sharing.

The Local Area Network (LAN) connects home computers while allowing any of the computers to access the Internet, share resources such as printers, or play online games—the basis of the modern family computing lifestyle.

## **Applications:**

---

### **Broadband Internet access:**

Several computers can share one high-speed broadband connection through wireless or wired connections. (WLAN, LAN, and WAN-Internet).

### **Resource sharing:**

Share resources such as printers, scanners, and other peripherals.

### **File sharing:**

Exchange data, messages, and distribute files among network users.

### **Online gaming:**

Easily setup online gaming and e-commerce services through the local area network.

### **Firewall:**

Built-in firewall function and anti-hack system for optimum security.

## **Features:**

---

High speed data transfer rate



easy configuration via WEB Browser.

## **UNPACKING AND SETUP**

---

This chapter provides unpacking and setup information for Unicom's Wireless Broadband Router.

### **Unpacking**

---

The Wireless Router box should contain the following items:

- (1) Wireless Broadband Router
- (1) External power adapter
- (1) CD-Rom with this User's Guide
- (1) Installation Quick Guide
- (1) Registration Card

If any item is missing or damaged, please contact your local reseller for replacement.

### **Setup**

---

The setup of the Wireless Router can be properly performed using the following methods:

The power outlet should be within 1.82 meters (6 feet) of the Broadband Router.

Visually inspect the DC power jack and make sure that it is fully secured to the power adapter.

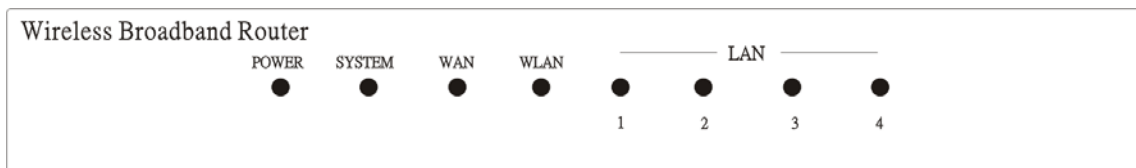
Make sure that there is proper heat dissipation from and adequate ventilation around the Broadband Router. Do not place heavy objects on the Broadband Router.

Fix the direction of the antennas. Try to place the Wireless Router in a position that can best serve your wireless network. Normally, the higher you place the antenna, the better the performance will be. The antenna's position enhances the receiving sensitivity.

## FWARE INSTALLATION

### Front Panel

Figure below shows the front panel of the Wireless Router.



**WEP-72104G-1 Front Panel**

### POWER

Indicator lights green when the hub is receiving power; otherwise, it is off.

### SYSTEM

Indicator blinks green when the Internet Broadband Router is working successfully. If the indicator is either solidly on or off, the router is experiencing a failure.

### WAN (Link/ACT)

Indicators light green when the WAN port is successfully connected to an xDSL/Cable modem. Indicators blink green while the WAN port is transmitting or receiving data from the xDSL/Cable modem.

### WLAN (ACT)

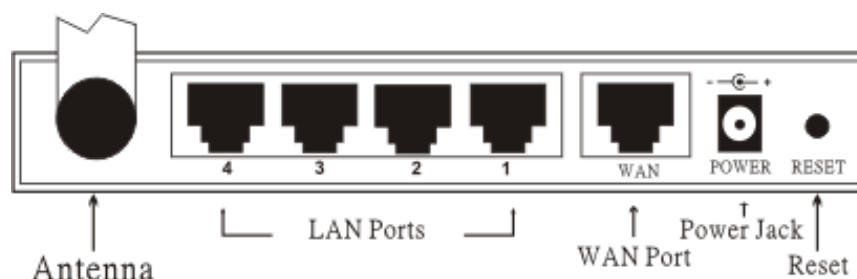
Indicator lights green when there are wireless devices connected and transmitting data to the Wireless Router.

### LAN (Link/ACT)

Indicators light green when the LAN ports are connected successfully. Indicators blink green while the LAN ports are transmitting data.

## Rear Panel

The figure below shows the rear panel of the WEP-72104G-1.



**WEP-72104G-1 Rear Panel**

### Antenna

There is one 2dB Gain Antenna in the rear panel for wireless connection.

### LAN (1-4)

Four RJ-45 10/100Mbps Auto-MDIX ports for connecting to either 10Mbps or 100Mbps Ethernet connections.

### WAN

Connect your xDSL/Cable modem to this port.

### POWER IN

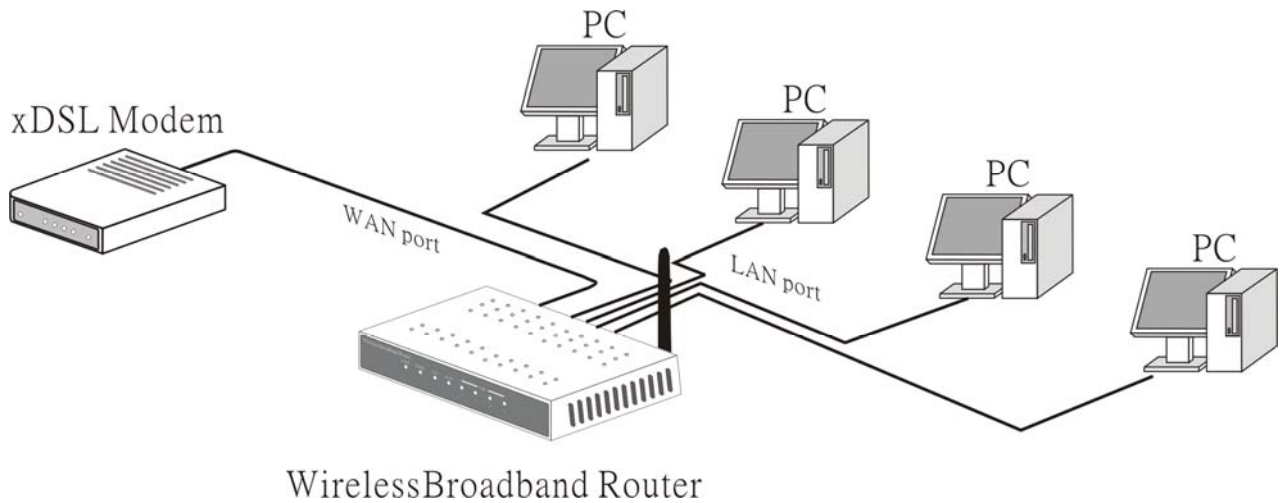
Plug the power adapter into this power jack

### RESET

Use this to reset the Router to its factory default settings. It can be a useful way to reset the password, however the settings will return to their default mode.

## ware connections

### ect the Router using LAN



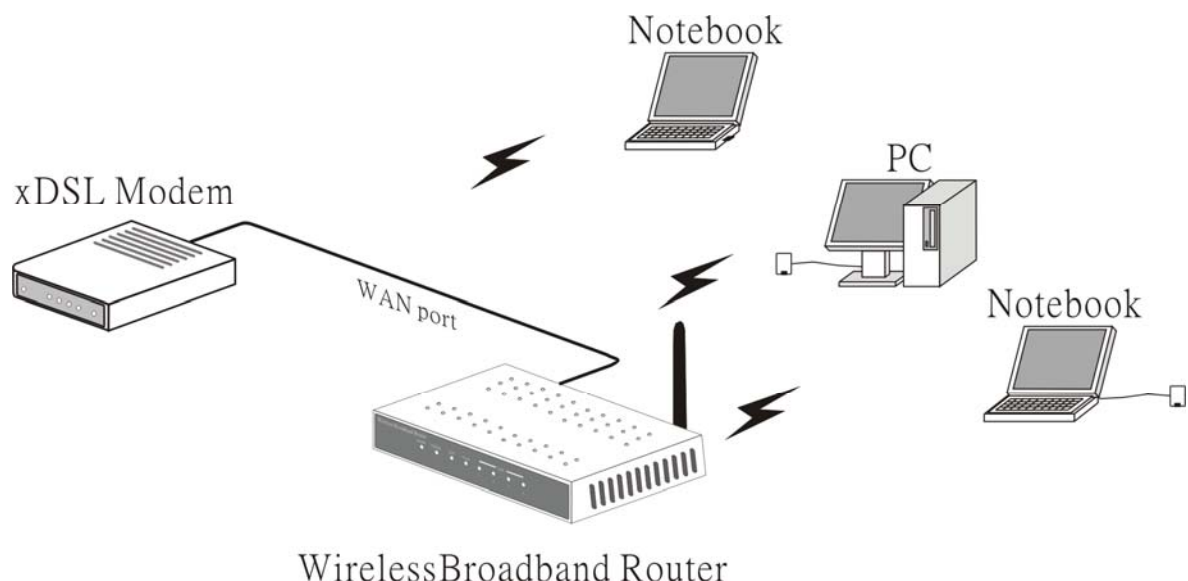
ing in one end of the network cable to the WAN port of the Wireless Router.

ing in the other end of the network cable to the Ethernet port of the xDSL or Cable modem.

ing another network cable, connect the Ethernet port on the computer to a LAN port of the WE 104G-1. Since the Wireless Router has four ports, you can connect up to four computers directly to the unit. The Wireless Router functions as both a connection-sharing router and a switch.



## Connect the Router using Wireless LAN



Plug one end of the RJ45 network cable into the xDSL/Cable Modem.

Plug the other end of the RJ45 network cable into the Wireless Internet Broadband Router's WAN port.

## Check the installation

The control LEDs of the WEP-72104G-1 are clearly visible and the status of the network link can be checked instantly:

With the power source on, once the device is connected to the broadband modem, the Power, LAN, WLAN and WAN port link LEDs will light up indicating a normal status.

While the WAN is linked to the ADSL/Cable modem, the WAN port's Link/ACT LED will light up.

While the LAN is linked to the computer system, the LAN port's Link/ACT LED will light up.

## NETWORK TCP/IP SETTING

network TCP/IP settings differ based on the computer's operating system. Configuration for Windows 95/98/ME/NT/2000/XP is as follows:

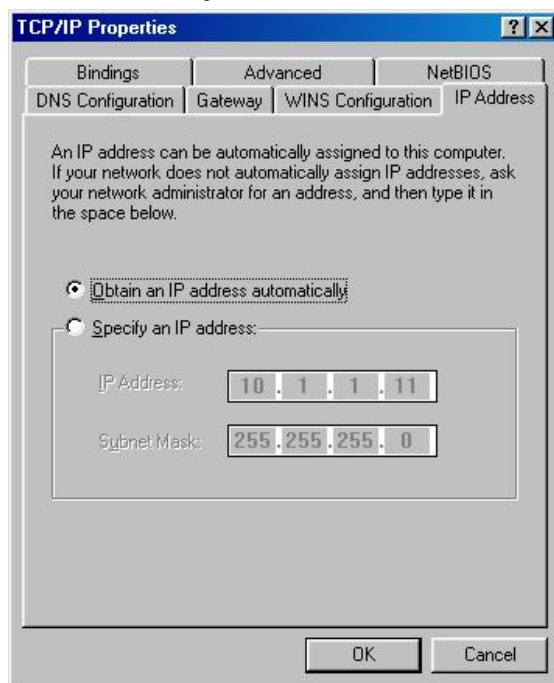
### Windows 95/98/ME

Click on the **“Network neighborhood”** icon found on the desktop.

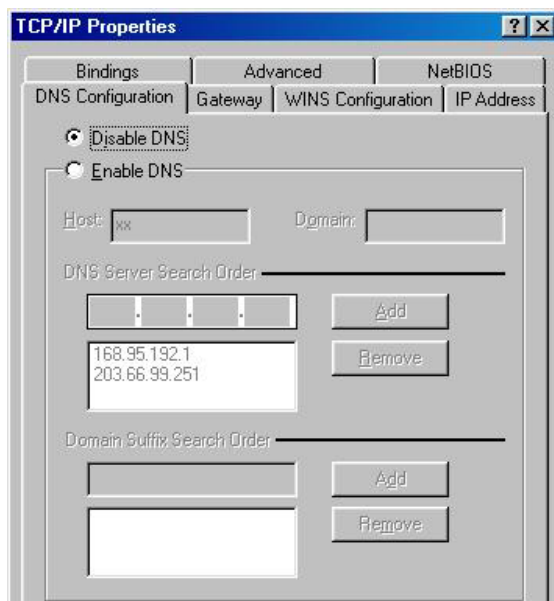
Click the right mouse button and a context menu will be shown.

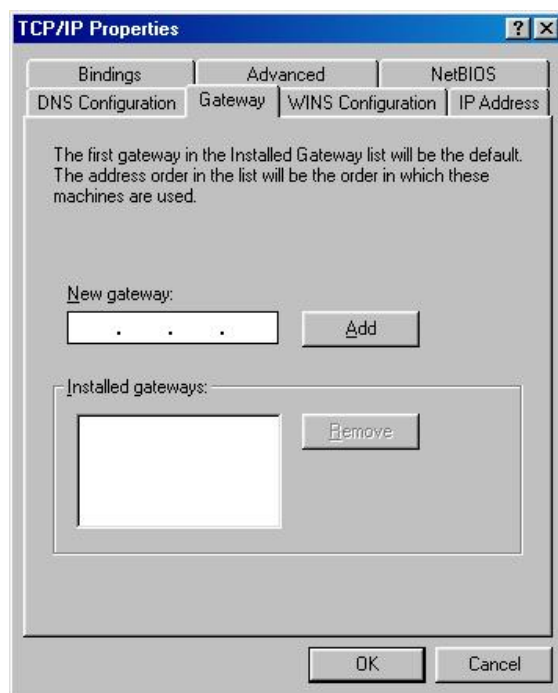
Select **“Properties”** to enter the TCP/IP setting screen.

Select **“Obtain an IP address automatically”** on the **“IP address”** field.



Select **“Disable DNS”** in the **“DNS”** field.





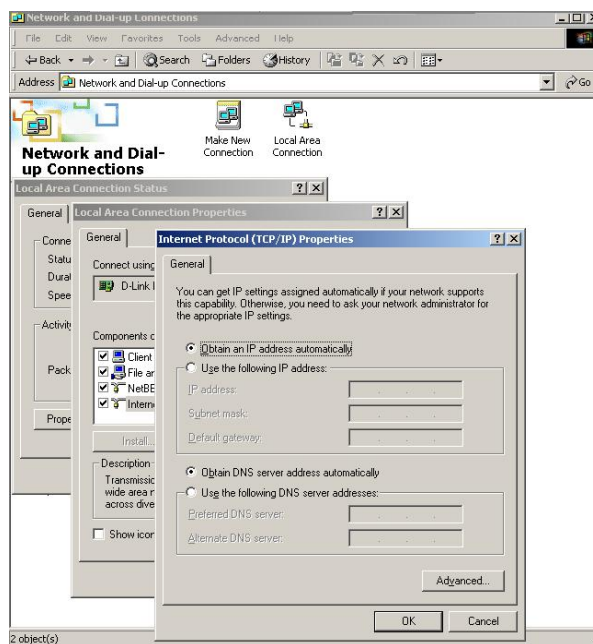
## Windows 2000

Double click on the “**My computer**” icon on the desktop. When “**My computer**” window opens, click on the “**Control panel**” and then open the “**Network dialup connection**” applet. Double click on the “**Local area network connection**” icon. Select “**Properties**” to enter the TCP/IP setting window.

In the “**Local area network status**” window, click on “**Properties.**”

In the “**Local area network connection**” window, first select TCP/IP setting and then click on “**Properties.**”

Set both “**IP address**” and “**DNS**” to **Automatic configuration.**



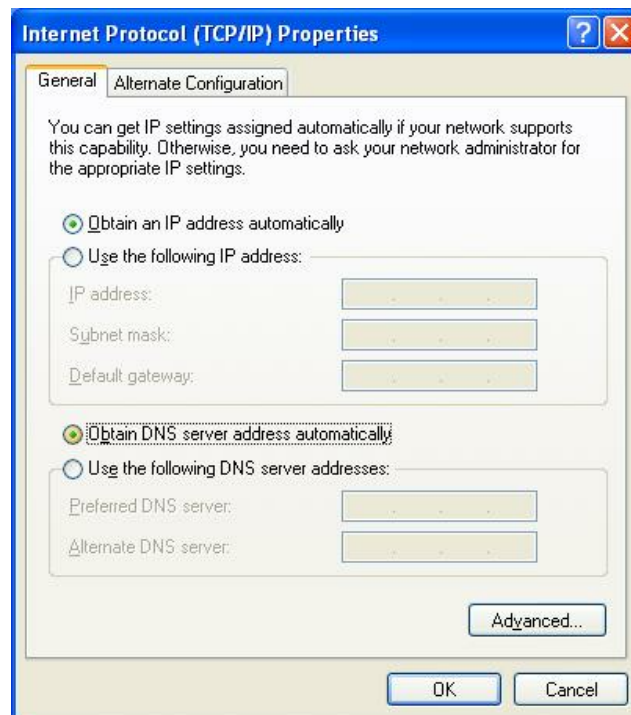
## Windows XP

click the cursor and click the right button on the “My Network Place” icon.

click “properties” to enter the TCP/IP setting window.

set “IP address” to “Obtain an IP address automatically.”

set “DNS” to “Obtain DNS server address automatically.”



## WIRELESS ROUTER CONFIGURATION

First, make sure that the network connections are functioning normally.

The WEP-72104G-1 can be configured using Internet Explorer 4.0 or newer web browser versions.

### Login to the Wireless Router through WLAN

Before configuring the Wireless Router through WLAN, make sure that the SSID, Channel, and Security are set properly.

The default setting of the Wireless Router:

SSID: default

Channel: 6

Security: disable

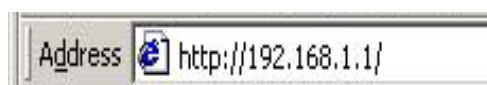
### Login to the Wireless Router through LAN

Before you configure this device, note that when the Wireless Router is configured through an Ethernet connection, the host computer must be set on an **IP subnetwork** that can be accessed by the xDSL/Cable modem. For example, when the default network address of the xDSL/Cable modem's Ethernet interface is 192.168.1.x, then the host computer should be set at 192.168.1.xxx (where xxx is a number between 2 and 254) and the default subnet mask is 255.255.255.0.

### Using the Web Browser

Open your Internet browser.

Enter IP address **http://192.168.1.1** (the factory-default IP address setting) to the URL web address location.



When the following dialog box appears, enter the user name and password to login to the main configuration window, the default username and password is ***“admin”***.



**Note:** To set a password, refer to the "Main Page Password Setting".

>>>>> **Welcome to Router Setup Wizard**

Step 1. Set your new password

Step 2. Choose your time zone

Step 3. Set LAN connection and DHCP server

Step 4. Set internet connection

Step 5. Set wireless LAN connection

Step 6. Restart

display wizard next time? ☒ Yes ☐ No

### Step 1: Set up new Password

User can change the password and then click “Next” to continue.



The screenshot shows the 'Set Password' screen of the 'Welcome to Router Setup Wizard'. It features two input fields: 'Password' and 'Verify Password', both containing masked characters (dots). Below the fields are three buttons: '< Back', 'Next >', and 'Exit'.

### Step 2: Choose time zone

Select the time zone from the drop down list. Please click “Next” to continue.



The screenshot shows the 'Choose Time Zone' screen of the 'Welcome to Router Setup Wizard'. It features a single dropdown menu with the text '(GMT-08:00) Pacific Time (US & Canada)' and a downward arrow. Below the dropdown are three buttons: '< Back', 'Next >', and 'Exit'.

### Step 3: Set LAN connection and DHCP server

Set user's IP address and mask. The default IP is 192.168.1.1. To enable DHCP, please click “Enable DHCP”. Enable DHCP automatically assigns IP addresses. Please assign the range of IP addresses in the fields “Range start” and “Range end”. Please click “Next” to continue.

#### 4: Set Internet connection

How the router will set up the Internet connection: Obtain IP automatically, Fixed IP address, PPPoE to obtain IP automatically, PPPoE with a fixed IP address, or PPTP.

##### Obtain IP automatically (DHCP client):

If the router has enabled DHCP server, choose "Obtain IP automatically (DHCP client)" to have the router obtain IP addresses automatically.



The screenshot shows the 'Welcome to Router Setup Wizard' window. The title bar is green with white text. Below the title bar, the text 'Select Internet Connection Type' is displayed in bold blue font. There are five radio button options listed: 'Obtain IP automatically (DHCP client)' (selected), 'Fixed IP address', 'PPPoE to obtain IP automatically', 'PPPoE with a fixed IP address', and 'PPTP'. At the bottom, there are three buttons: '< Back', 'Next >', and 'Exit'.

##### Fixed IP Address:



The screenshot shows the 'Welcome to Router Setup Wizard' window. The title bar is green with white text. Below the title bar, the text 'Select Internet Connection Type' is displayed in bold blue font. There are five radio button options listed: 'Obtain IP automatically (DHCP client)', 'Fixed IP address' (selected), 'PPPoE to obtain IP automatically', 'PPPoE with a fixed IP address', and 'PPTP'. At the bottom, there are three buttons: '< Back', 'Next >', and 'Exit'.



If the Internet Service Providers assigned a fixed IP address, choose this option and enter the address, subnet mask, gateway IP, and DNS IP addresses for your Broadband Router.

>>>>>>
Welcome to Router Setup Wizard

Set Fixed IP Address

WAN IP Address	<input type="text" value="0.0.0.0"/>
WAN Subnet Mask	<input type="text" value="0.0.0.0"/>
WAN Gateway Address	<input type="text" value="0.0.0.0"/>
DNS Server Address 1	<input type="text" value="0.0.0.0"/>
DNS Server Address 2	<input type="text" value="0.0.0.0"/>
DNS Server Address 3	<input type="text" value="0.0.0.0"/>

E to obtain IP automatically:

connected to the Internet using a PPPoE (Dial-up xDSL) Modem, the ISP will provide a Password and User Name, and then the ISP uses PPPoE. Choose this option and enter the required information.

>>>>>
Welcome to Router Setup Wizard

**Select Internet Connection Type**

☐ Obtain IP automatically (DHCP client)  
☐ Fixed IP address  
☒ PPPoE to obtain IP automatically  
☐ PPPoE with a fixed IP address  
☐ PPTP

>>>>>
Welcome to Router Setup Wizard

**Set PPPoE to obtain IP automatically**

User Name

Password

Verify Password

## PoE with a fixed IP address:

connected to the Internet using a PPPoE (Dial-up xDSL) Modem, the ISP will provide a Password, User Name and a Fixed IP Address, choose this option and enter the required information.

>>>>> **Welcome to Router Setup Wizard**

**Select Internet Connection Type**

☐ Obtain IP automatically (DHCP client)  
☐ Fixed IP address  
☐ PPPoE to obtain IP automatically  
☒ PPPoE with a fixed IP address  
☐ PPTP

>>>>> **Welcome to Router Setup Wizard**

**Set PPPoe with a fixed IP Address**

User Name   
 Password   
 Verify Password   
 IP Address

connected to the Internet using an (PPTP) xDSL Modem, enter the IP Address, Subnet Mask, Server IP, PPTP Account, and PPTP Password in the appropriate fields. If your ISP has provided you with a Connection ID, enter it in the Connection ID field, otherwise, leave it "zero".

>>>>> **Welcome to Router Setup Wizard**

**Select Internet Connection Type**

☐ Obtain IP automatically (DHCP client)  
☐ Fixed IP address  
☐ PPPoE to obtain IP automatically  
☐ PPPoE with a fixed IP address  
☒ PPTP

>>>>> **Welcome to Router Setup Wizard**

**Set PPTP Client**

My IP	0.0.0.0
Subnet Mask	0.0.0.0
GateWay	0.0.0.0
Server IP	0.0.0.0
PPTP Account	
PPTP Password	.....
Retype Password	.....

## Step 5: Set Wireless LAN connection

Click “Enable” to enable wireless LAN. If user enables the wireless LAN, type the SSID in the text box and select a communications channel. The SSID and channel must be the same as wireless device attempting communication with the router.



The screenshot shows a web-based setup wizard with a green header bar containing the text "Welcome to Router Setup Wizard". Below the header, the title "Set Wireless LAN Connection" is displayed in blue. The main content area has a light green background and contains the following elements:
 

- A label "Wireless LAN" followed by two radio buttons: "Enable" (which is selected) and "Disable".
- A text input field labeled "SSID" containing the text "default".
- A dropdown menu labeled "Channel" with the value "6" selected.
- At the bottom, there are three buttons: "< Back", "Next >", and "Exit".

## Step 6: Restart

The Setup wizard is now completed. The new settings will be effective after the Wireless router is restarted. Please click “Restart” to reboot the router. Click “Exit” to exit the wizard without saving changes. Click "Back" to modify the previous setting.



The screenshot shows the final screen of the setup wizard. The green header bar still says "Welcome to Router Setup Wizard". The title "Setup Completed" is displayed in blue. The main content area has a light green background and contains:
 

- A text instruction: "Click 'Restart' button to save the settings and restart Wireless Router."
- At the bottom, there are three buttons: "< Back", "Restart", and "Exit".

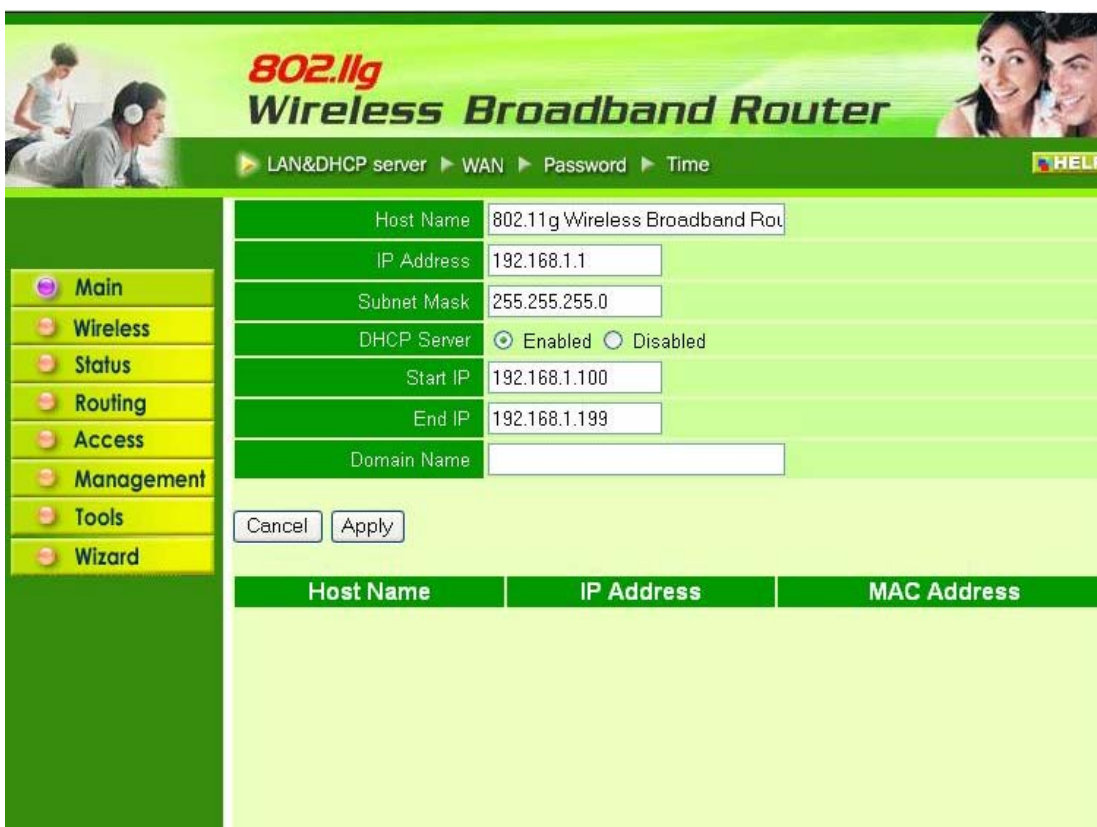
## Advanced Setup

### LAN Setting

This screen enables users to configure the LAN & DHCP Server, set WAN parameters, create administrator and User passwords, and set the local time, time zone, and dynamic DNS.

#### LAN & DHCP Server

Configure LAN and DHCP properties here, such as the host name, IP address, subnet mask, and domain name. DHCP profiles are listed in the DHCP table at the bottom of the screen.



Host Name	802.11g Wireless Broadband Rou	
IP Address	192.168.1.1	
Subnet Mask	255.255.255.0	
DHCP Server	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	
Start IP	192.168.1.100	
End IP	192.168.1.199	
Domain Name		

Cancel Apply

Host Name	IP Address	MAC Address

**Host Name:** Type the host name in the text box. The host name is required by some ISPs. The default host name is "AP-Router."

**IP Address:** This is the IP address of the router. The default IP address is 192.168.1.1.

**Subnet Mask:** Type the subnet mask for the router in the text box. The default subnet mask is 255.255.0.

**DHCP Server:** Enables the DHCP server to allow the router to automatically assign IP addresses to devices connecting to the LAN. *DHCP is enabled by default.*

DHCP client computers are listed in the table at the bottom of the screen, providing the host name, IP address, and MAC address of the client.

**Start IP:** Type an IP address to serve as the start of the IP range that DHCP will use to assign IP addresses to all LAN devices connected to the router.



**Connection Type:** Select the connection type, DHCP client, Fixed IP, or PPPoE, from the drop-

**WAN IP:** Select whether user wants to specify an IP address manually, or want DHCP to obtain address automatically. When Specify IP is selected, type the IP address, subnet mask, and default gateway in the text boxes. User's ISP will provide with this information.

**DNS 1/2/3:** Type up to three DNS numbers in the text boxes. User's ISP will provide with this information.

**MAC Address:** If required by user's ISP, type the MAC address of the router WAN interface in the text box.

**DNS 1/2/3:** Type up to three DNS numbers in the text boxes. User's ISP will provide with this information.

### 3 Password

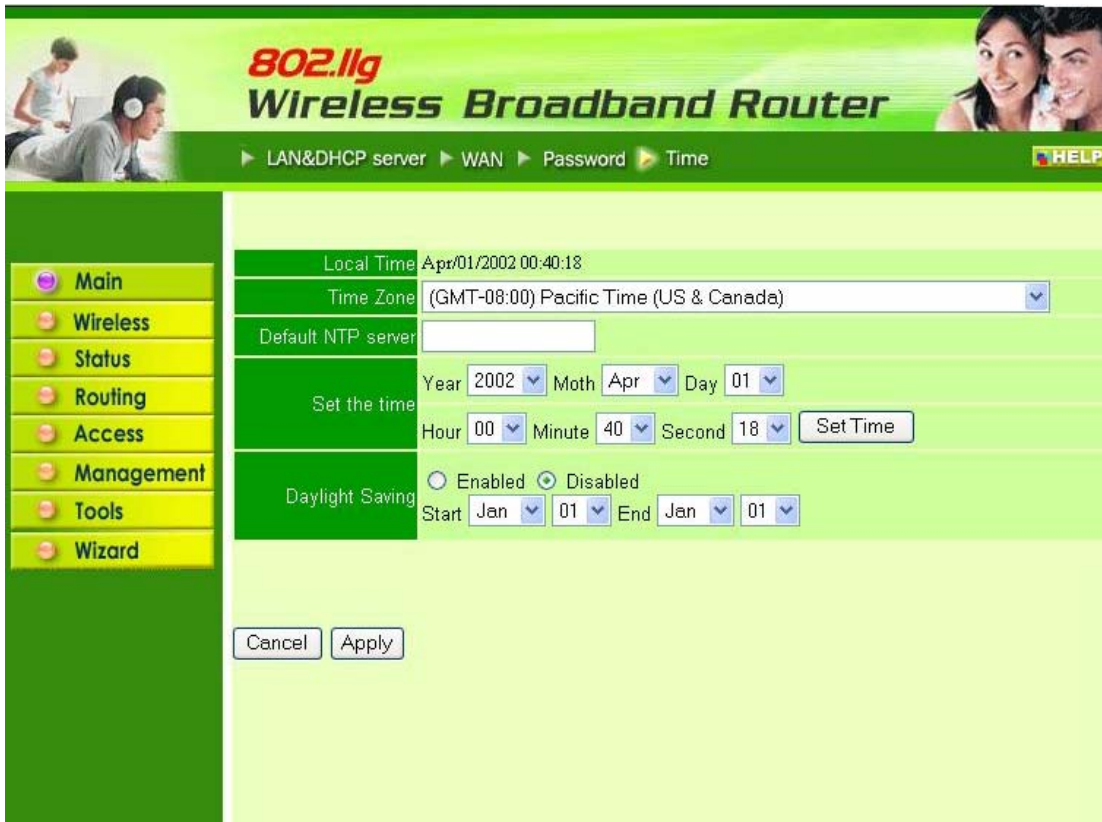
This screen enables user to set administrative and user passwords. These passwords are used to access to the router interface.



**Administrator:** Type the password the Administrator will use to log in to the system. The password must be typed again for confirmation.

## Time

This screen enables users to set the time and date for the router's real-time clock, select properly time zone, and enable or disable daylight saving.



**802.11g Wireless Broadband Router**

► LAN&DHCP server ► WAN ► Password ► Time **HELP**

**Main**  
**Wireless**  
**Status**  
**Routing**  
**Access**  
**Management**  
**Tools**  
**Wizard**

Local Time: Apr/01/2002 00:40:18

Time Zone: (GMT-08:00) Pacific Time (US & Canada) ▼

Default NTP server:

Set the time: Year: 2002 ▼ Month: Apr ▼ Day: 01 ▼ Hour: 00 ▼ Minute: 40 ▼ Second: 18 ▼ **SetTime**

Daylight Saving: ☐ Enabled ☒ Disabled  
 Start: Jan ▼ 01 ▼ End: Jan ▼ 01 ▼

**Cancel** **Apply**

**Time:** Displays the local time and date.

**Zone:** Select the time zone from the drop-down list.

**Daylight Saving:** Enables user to enable or disable daylight saving time. When enabled, select the start and date for daylight saving time.



## 2 Wireless

This section enables users to set wireless communications parameters for the router's wireless network.

### 2.1 Basic

This page enables and disables the wireless LAN function, creates a SSID, and selects the channel for wireless communications.

The screenshot shows the configuration interface for an 802.11g Wireless Broadband Router. The top banner features the text "802.11g Wireless Broadband Router" and a "HELP" button. Below the banner, there are tabs for "Basic", "WEP", and "Advanced", with "Basic" being the active tab. On the left side, there is a vertical menu with buttons for "Main", "Wireless", "Status", "Routing", "Access", "Management", "Tools", and "Wizard". The "Wireless" button is highlighted. The main content area displays the "Wireless" configuration settings. It includes a radio button to "Enable" or "Disable" the wireless LAN function, which is currently set to "Enabled". Below this, there is a text box for the "SSID" set to "default" and a dropdown menu for the "Channel" set to "6" (Domain: USA). At the bottom of the configuration area, there are "Cancel" and "Apply" buttons.

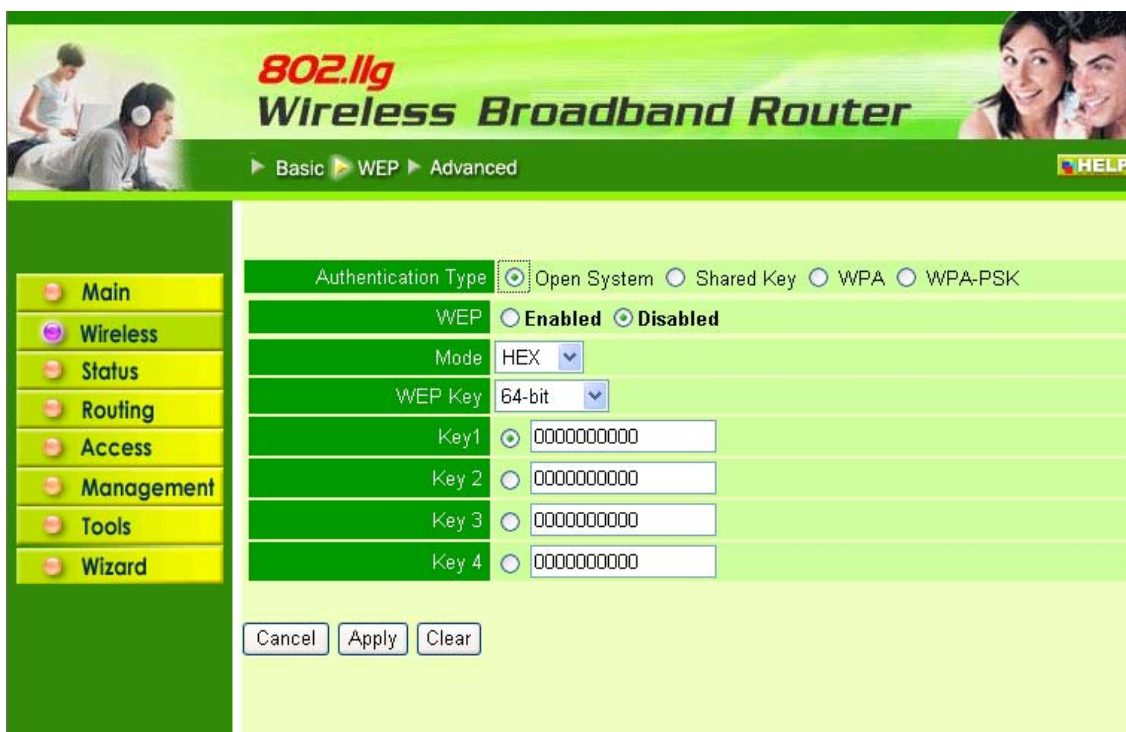
**Enable/Disable:** Enables and disables wireless LAN via the router.

**SSID:** Type an SSID in the text box. The SSID of any wireless device must match the SSID type in order for the wireless device to access the LAN and WAN via the router.

**Channel:** Select a transmission channel for wireless communications. The channel of any wireless device must match the channel selected here in order for the wireless device to access the LAN and WAN via the router.

## Authentication

This screen enables user to set authentication type for secure wireless communications. Open System provides public access to the router via wireless communications. Shared Key requires the user to select a key to exchange data with other wireless clients that have the same WEP key. This router also supports WPA and WPA-PSK.



**Authentication Type:** The authentication type default is set to open system. There are three options: Open System, Shared Key, WPA and WPA-PSK.

**WEP:** Enable or Disabled. This is to make WEP enabled or disabled.

**Mode:** Select the key mode in ASCII or HEX

**WEP Key:** Select the level of encryption from the drop-down list. The router supports, 64- and 128-bit encryption.

**Key 1 ~ Key 4:** Enables user to create an encryption scheme for Wireless LAN transmissions. Manual entry of a set of values for each key. Select a key to use by clicking the radio button next to the key. Click "Clear" to erase key values.

WPA is selected, the below screen is shown. Please set the length of the encryption key and parameters for the RADIUS server.

The screenshot shows the configuration page for the 802.11g Wireless Broadband Router. The left sidebar contains a menu with options: Main, Wireless, Status, Routing, Access, Management, Tools, and Wizard. The main content area is titled "802.11g Wireless Broadband Router" and has tabs for Basic, WEP, and Advanced. The "WEP" tab is selected. Under "Authentication Type", the "WPA" radio button is selected. Below this, there are two sections for RADIUS servers. The "RADIUS Server 1" section has fields for IP (0.0.0.0), Port (1812), and Shared Secret. The "RADIUS Server 2 (Optional)" section has fields for IP (0.0.0.0), Port (0), and Shared Secret. At the bottom, there are buttons for Cancel, Apply, and Clear.

## RADIUS Server:

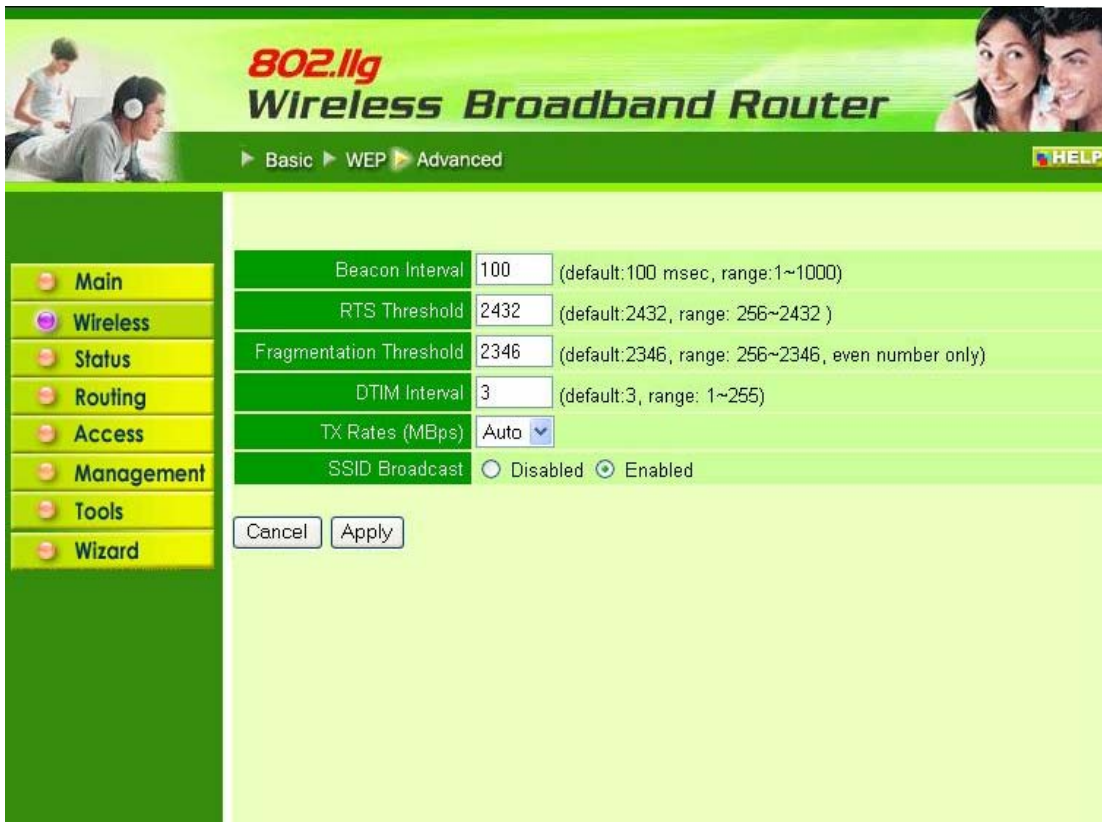
Enter the **IP address** of and the **Port** used by the **Primary** Radius Server

Enter the **Shared Secret**, which is used by the Radius Server.

Enter the **IP address** of, **Port** and **Shared Secret** used by the **Secondary** Radius Server.

WPA-PSK is selected, please set the PSK key in the pass phrase field. The pass phrase should be at least 8 characters.

The screenshot shows the configuration page for the 802.11g Wireless Broadband Router. The left sidebar contains a menu with options: Main, Wireless, Status, Routing, Access, Management, Tools, and Wizard. The main content area is titled "802.11g Wireless Broadband Router" and has tabs for Basic, WEP, and Advanced. The "WEP" tab is selected. Under "Authentication Type", the "WPA-PSK" radio button is selected. Below this, there are two fields for the Passphrase and Confirmed Passphrase, both containing 8 dots. At the bottom, there are buttons for Cancel, Apply, and Clear.



**802.11g Wireless Broadband Router**

Basic WEP Advanced HELP

- Main
- Wireless**
- Status
- Routing
- Access
- Management
- Tools
- Wizard

Beacon Interval	100	(default:100 msec, range:1~1000)
RTS Threshold	2432	(default:2432, range: 256~2432 )
Fragmentation Threshold	2346	(default:2346, range: 256~2346, even number only)
DTIM Interval	3	(default:3, range: 1~255)
TX Rates (Mbps)	Auto	
SSID Broadcast	<input type="radio"/> Disabled <input checked="" type="radio"/> Enabled	

Cancel Apply

**Beacon Interval:** Type the beacon interval in the text box. User can specify a value from 1 to 1000. The default beacon interval is 100.

**RTS Threshold:** Type the RTS (Request-To-Send) threshold in the text box. This value stabilizes data flow. If data flow is irregular, choose values between 256 and 2432 until data flow is normalized.

**Fragmentation Threshold:** Type the fragmentation threshold in the text box. If packet transfer errors are high, choose values between 256 and 2432 until packet transfer rates are minimized. (NOTE: This fragmentation threshold value may diminish system performance.)

**DTIM Interval:** Type a DTIM (Delivery Traffic Indication Message) interval in the text box. User can specify a value between 1 and 65535. The default value is 3.

**TX Rates (Mbps):** Select one of the wireless communications transfer rates, measured in megabits per second, based upon the speed of wireless adapters connected to the WLAN.

## Status

This selection enables user to view the status of the router LAN, WAN connections, and view logs and statistics pertaining to connections and packet transfers.

## Device Information

This screen enables user to view the router LAN, Wireless and WAN configuration



**802.11g Wireless Broadband Router**

Device information Log Setting Statistic Wireless HELP

**Firmware Version: V1.3.4 , Wed, 30 Jun 2004**



**LAN:** This field displays the router's LAN interface MAC address, IP address, subnet mask, and DHCP client status. Click “DHCP Table” to view a list of client stations currently connected to the LAN interface.

**Wireless:** Displays the router's wireless connection information, including the router's wireless interface MAC address, the connection status, the SSID status, which channel is being used, and whether Wireless is enabled or not.

**WAN:** This field displays the router's WAN interface MAC address, DHCP client status, IP address, subnet mask, default gateway, and DNS.

Click “DHCP Release” to release all IP addresses assigned to client stations connected to the WAN interface of the router. Click “DHCP Renew” to reassign IP addresses to client stations connected to the WAN interface.

## 2 Log

This screen enables user to view a running log of router system statistics, events, and activities. The log displays up to 200 entries. Older entries are overwritten by new entries. The Log screen commands are as follows:

Click “First Page” to view the first page of the log

Click “Last Page” to view the final page of the log

Click “Previous Page” to view the page just before the current page

Click “Next Page” to view the page just after the current page

Click “Clear Log” to delete the contents of the log and begin a new log

Click “Refresh” to renew log statistics



The screenshot shows the web interface of an 802.11g Wireless Broadband Router. The top banner features the text "802.11g Wireless Broadband Router" and navigation links: "Device information", "Log", "Log Setting", "Statistic", "Wireless", and a "HELP" button. A sidebar on the left contains menu items: "Main", "Wireless", "Status", "Routing", "Access", "Management", "Tools", and "Wizard". The main content area displays the "Log" page, which includes a table of log entries and navigation buttons.

Navigation buttons: First Page, Last Page, Previous Page, Next Page, Clear Log, Refresh

page 1 of 20

Time	Message	Source	Destination	Note
Apr/01/2002 00:49:06	DHCP Discover			
Apr/01/2002 00:49:02	DHCP Discover			
Apr/01/2002 00:49:01	DHCP Discover no response			
Apr/01/2002 00:49:00	DHCP Discover			
Apr/01/2002 00:48:27	DHCP Discover			
Apr/01/2002 00:48:11	DHCP Discover			
Apr/01/2002 00:48:05	DHCP lease IP 192.168.1.100 to work			00-0D-88-A2-16-BD
Apr/01/2002	DHCP Discover			

## Log Setting

This screen enables user to set router logging parameters.



**802.11g Wireless Broadband Router**

► Device information ► Log ► **Log Setting** ► Statistic ► Wireless HELP

**Main**  
**Wireless**  
**Status**  
**Routing**  
**Access**  
**Management**  
**Tools**  
**Wizard**

SMTP Server

Send to  Email Address

Syslog Server

Log Type ☒ System Activity  
☒ Attacks  
☐ Dropped Packets  
☒ Notice

**SMTP Server:** Type the SMTP server address for the recipient email in the next field.

**Send to:** Type an email address for the log to be sent to. Click “Email Log Now” to immediately send the current log.

**Syslog Server:** Type the IP address of the Syslog Server if user wants the router to listen and receive incoming Syslog messages.

**Log Type:** Enables user to select what items will be included in the log:

**System Activity:** Displays information related to router operation.

**Debug Information:** Displays information related to errors and system malfunction.


**Attacks:** Displays information about any malicious activity on the network.

**Dropped Packets:** Displays information about packets that have not been transferred successfully.

**Notice:** Displays important notices by the system administrator.

#### 4.4 Statistic

This screen displays a table that shows the rate of packet transmission via the router LAN and Wireless (in bytes per second).



**802.11g Wireless Broadband Router**

► Device information ► Log ► Log Setting ► **Statistic** ► Wireless **HELP**

		LAN	Wireless	WAN
Send	Packets	2461	1663	0
Receive	Packets	4011	728	0

**Navigation Menu:**

- Main
- Wireless
- Status**
- Routing
- Access
- Management
- Tools
- Wizard

Click “Reset” to erase all statistics and begin logging statistics again.

## Wireless

screen enables user to view information about wireless devices that are connected to the wireless LAN interface of the router.



The screenshot shows the web interface of an 802.11g Wireless Broadband Router. The top banner features the router's name and a navigation bar with links: Device information, Log, Log Setting, Statistic, and Wireless. A sidebar on the left contains a menu with options: Main, Wireless, Status, Routing, Access, Management, Tools, and Wizard. The main content area displays a table with two columns: Connected Time and MAC Address. The table shows a single entry for a device connected on April 01, 2002, at 00:51:21, with a MAC address of FF-FF-FF-FF-FF-FF.

Connected Time	MAC Address
Apr/01/2002 00:51:21	FF-FF-FF-FF-FF-FF

**Connected Time:** Displays how long the wireless device has been connected to the LAN via the router.

**MAC Address:** Displays the device's wireless LAN interface MAC address.



## 4 Routing

This selection enables user to set how the router forwards data: Static and Dynamic. Routing enables user to view the information created by the router that displays the network interconnectivity.

### 4.1 Static

This selection enables user to set parameters by which the router forwards data to its destination if user's network has a static IP address.

The screenshot shows the configuration interface for a 802.11g Wireless Broadband Router. The top banner features the text "802.11g Wireless Broadband Router" and navigation links for "Static", "Dynamic", and "Routing Table". A "HELP" button is also present. On the left, a sidebar contains menu items: "Main", "Wireless", "Status", "Routing" (highlighted), "Access", "Management", "Tools", and "Wizard". The main content area is for static IP configuration. It includes input fields for "Network Address", "Network Mask", "Gateway Address", "Interface" (a dropdown menu currently showing "LAN"), and "Metric". Below these fields are four buttons: "Add", "Update", "Delete", and "New". At the bottom, there is a table with the following headers: "Network Address", "Mask", "Gateway", "Interface", and "Metric". The table body is currently empty.

**Network Address:** Type the static IP address user's network uses to access the Internet. User's ISP or network administrator provides user with this information.

**Network Mask:** Type the network (subnet) mask for user's network. If user does not type a value, the network mask defaults to 255.255.255.255. User's ISP or network administrator provides user with this information.

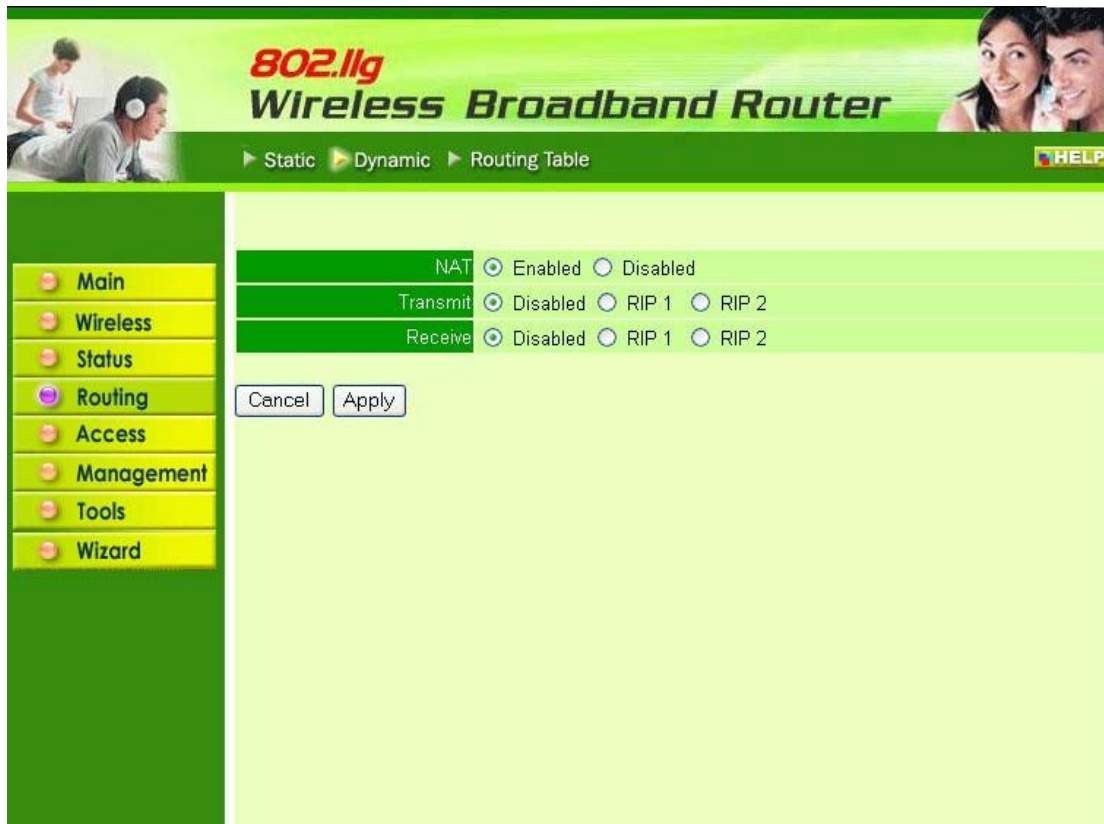
**Gateway Address:** Type the gateway address for network. User's ISP or network administrator provides user with this information.

**Interface:** Select an interface, WAN or LAN, to connect to the Internet.

**Metric:** Select which metric that user want to apply to this configuration.

**Add:** Click to add the configuration to the static IP address table at the bottom of the page.

**Update:** Select one of the entries in the static IP address table at the bottom of the page and,



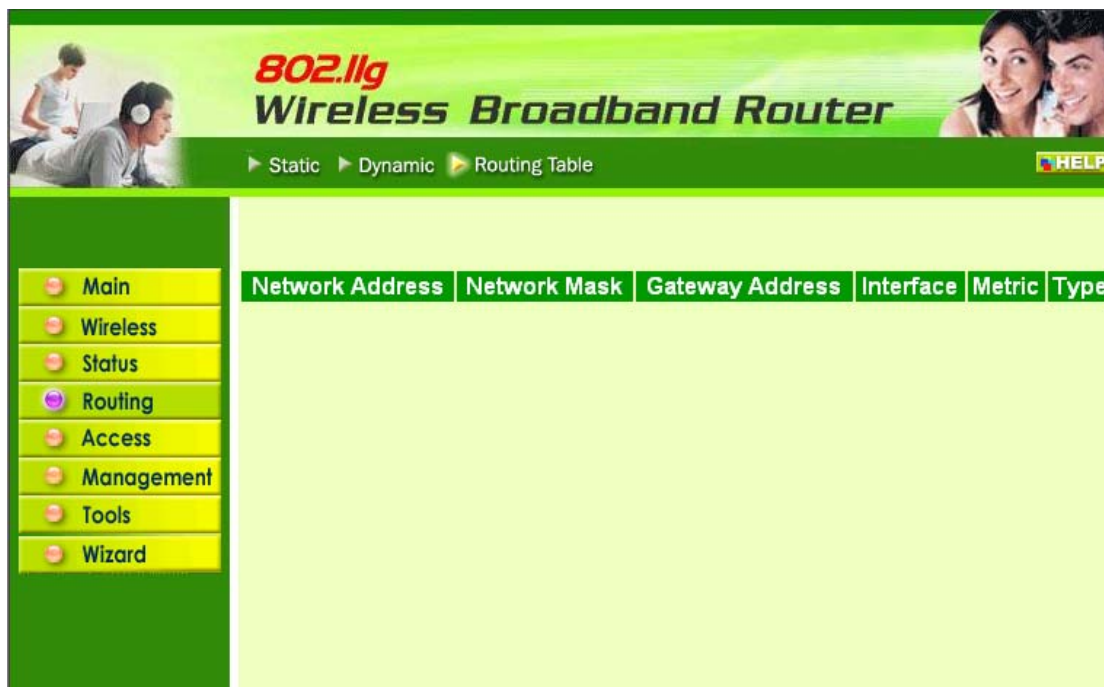
Click the radio buttons to enable or disable NAT.

*mit:* Click the radio buttons to set the desired transmit parameters, disabled, RIP 1, or RIP 2.

*ve:* Click the radio buttons to set the desired transmit parameters, disabled, RIP 1, or RIP 2.

## Routing Table

This screen enables user to view the routing table for the router. The routing table is a database created by the router that displays the network interconnection topology.



## 5 Access

This page enables user to define access restrictions, set up protocol and IP filters, create virtual servers, define access for special applications such as games, and set firewall rules.

### 5.1 MAC Filters

This page enables user to allow or deny Internet access to users within the LAN based upon the MAC address of their network interface. Click the radio button next to “Disabled” to disable the MAC filter.

**Disabled:** Once the function of MAC filter is disabled, those listed in the MAC Table are all allowed Internet access.

**Allow:** All users are allowed Internet access except those users in the MAC Table are denied Internet access.

**MAC Table:** Use this section to create a user profile which Internet access is denied or allowed. User profiles are listed in the table at the bottom of the page. (Note: Click anywhere in the item. When a line is selected, the fields automatically load the item's parameters, which user can edit.)

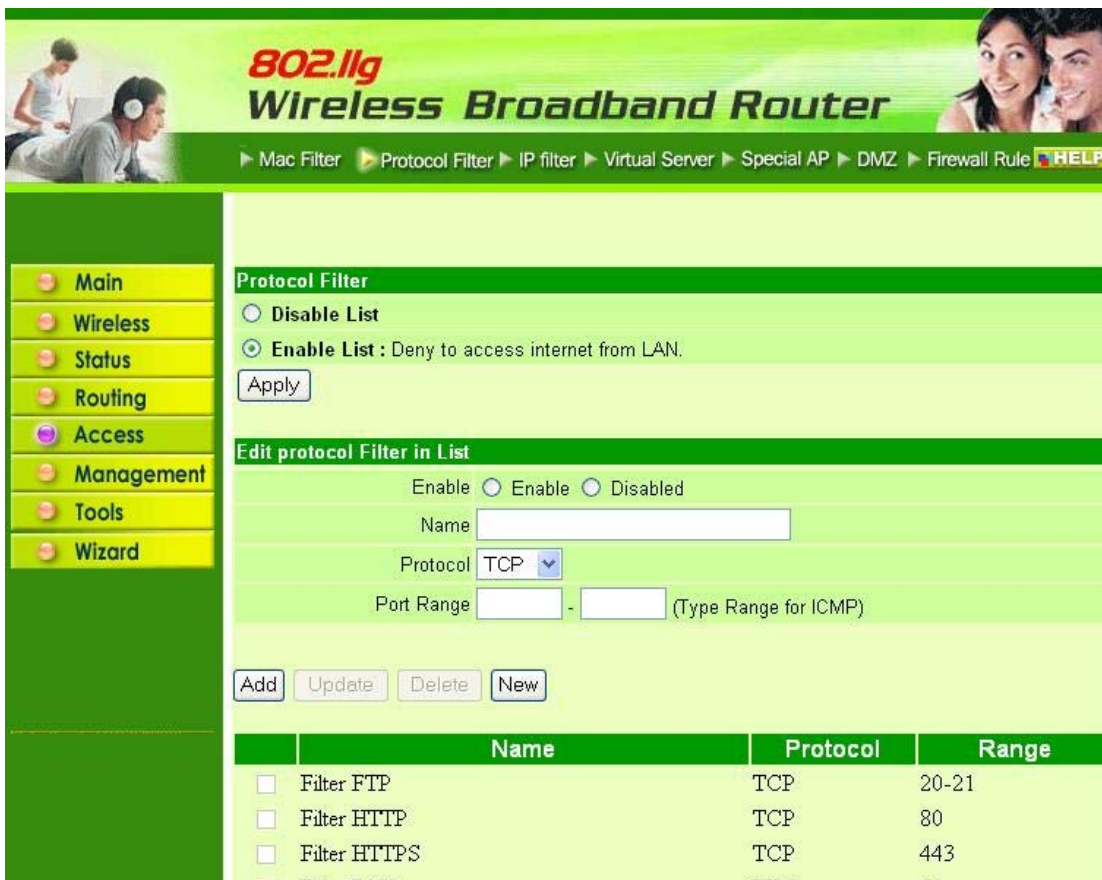
**Name:** Type the name of the user to be permitted/denied access.

**MAC Address:** Type the MAC address of the user's network interface.

**Add:** Click to add the user to the list at the bottom of the page.

**Update:** Click to update information for the user, if user has changed any of the fields.

**Delete:** Select a user from the table at the bottom of the list and click “Delete” to remove the user profile.



**802.11g Wireless Broadband Router**

Mac Filter Protocol Filter IP filter Virtual Server Special AP DMZ Firewall Rule **HELP**

**Protocol Filter**

☐ Disable List

☒ Enable List : Deny to access internet from LAN.

Apply

**Edit protocol Filter in List**

Enable ☐ Enable ☐ Disabled

Name

Protocol TCP

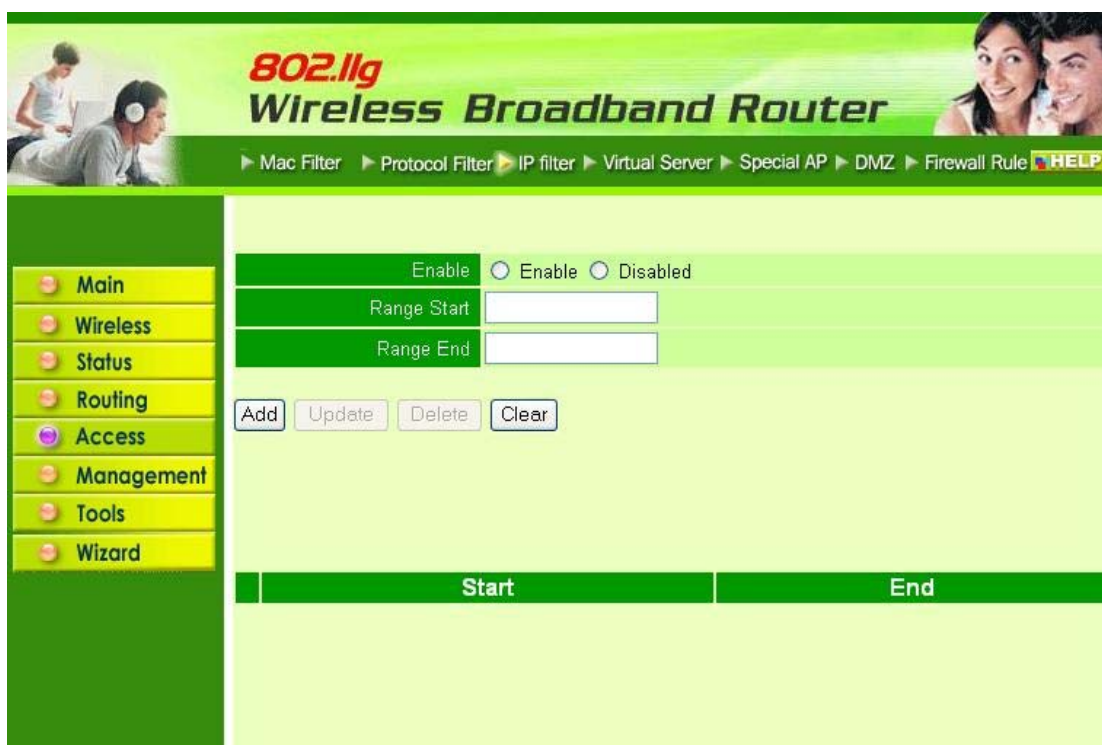
Port Range  -  (Type Range for ICMP)

Add Update Delete New

	Name	Protocol	Range
<input type="checkbox"/>	Filter FTP	TCP	20-21
<input type="checkbox"/>	Filter HTTP	TCP	80
<input type="checkbox"/>	Filter HTTPS	TCP	443
<input type="checkbox"/>	Filter SMTP	TCP	25

## IP Filter

This screen enables user to define a minimum and maximum IP address range filter; no IP addresses within the range are allowed Internet access. The IP filter profiles are listed in the table at the bottom of the page. (Note: Click anywhere in the item. Once the line is selected, the fields will automatically load the item's parameters, which user can edit.)



**802.11g Wireless Broadband Router**

Mac Filter Protocol Filter IP filter Virtual Server Special AP DMZ Firewall Rule **HELP**

**IP Filter**

Enable ☐ Enable ☐ Disabled

Range Start

Range End

Add Update Delete Clear

	Start	End
<input type="checkbox"/>		



Click “New” to erase all fields and enter new information.

#### 4 Virtual Server

This screen enables user to create a virtual server via the router. If the router is set as a virtual server, remote users requesting Web or FTP services through the WAN are directed to local servers on the LAN. The router redirects the request via the protocol and port numbers to the correct LAN server. Virtual Server profiles are listed in the table at the bottom of the page.

**Note:** When selecting items in the table at the bottom, click anywhere in the item. The line is selected and the fields automatically load the item's parameters, which user can edit.

	Name	Protocol	LAN Server
<input type="checkbox"/>	Virtual Server FTP	TCP 21/21	0.0.0.0
<input type="checkbox"/>	Virtual Server HTTP	TCP 80/80	0.0.0.0
<input type="checkbox"/>	Virtual Server HTTPS	TCP 443/443	0.0.0.0
<input type="checkbox"/>	Virtual Server DNS	UDP 53/53	0.0.0.0
<input type="checkbox"/>	Virtual Server SMTP	TCP 25/25	0.0.0.0
<input type="checkbox"/>	Virtual Server POP3	TCP 110/110	0.0.0.0
<input type="checkbox"/>	Virtual Server Telnet	TCP 23/23	0.0.0.0
<input type="checkbox"/>	IPSec	UDP 500/500	0.0.0.0

**Enable:** Click to enable or disable the virtual server.

**Name:** Type a descriptive name for the virtual server.

**Protocol:** Select a protocol (TCP or UDP) to use for the virtual server.

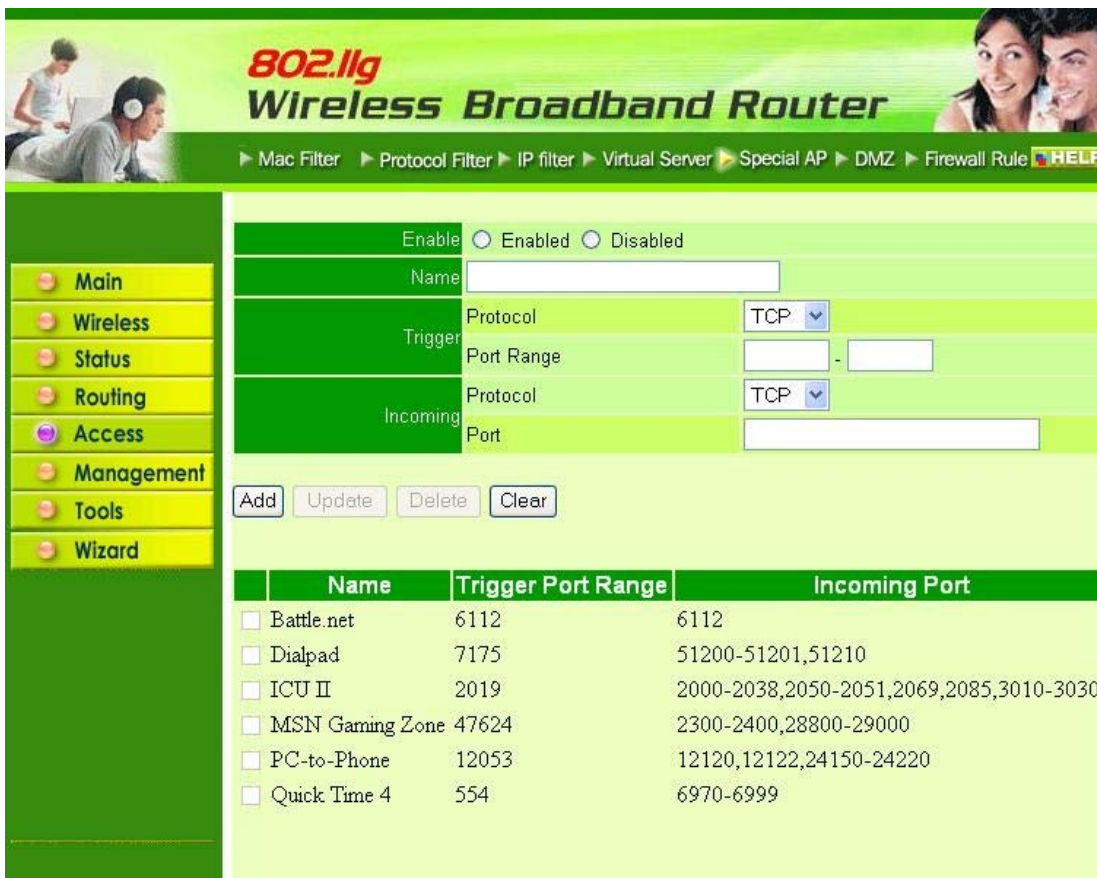
**Private Port:** Type the port number of the computer on the LAN that is being used to act as a virtual server.

**Public Port:** Type the port number on the WAN that will be used to provide access to the virtual server.

**LAN Server:** Type the LAN IP address that will be assigned to the virtual server.

**add:** Click to add the virtual server to the table at the bottom of the screen.

**update:** Click to update information for the virtual server if user have selected a list item and



**802.11g Wireless Broadband Router**

Mac Filter Protocol Filter IP filter Virtual Server Special AP DMZ Firewall Rule **HELP**

Enable ☐ Enabled ☐ Disabled

Name

Trigger Protocol  Port Range  -

Incoming Protocol  Port

	Name	Trigger Port Range	Incoming Port
<input type="checkbox"/>	Battle.net	6112	6112
<input type="checkbox"/>	Dialpad	7175	51200-51201,51210
<input type="checkbox"/>	ICU II	2019	2000-2038,2050-2051,2069,2085,3010-3030
<input type="checkbox"/>	MSN Gaming Zone	47624	2300-2400,28800-29000
<input type="checkbox"/>	PC-to-Phone	12053	12120,12122,24150-24220
<input type="checkbox"/>	Quick Time 4	554	6970-6999

**Enable:** Click to enable or disable the application profile. When enabled, users will be able to connect to the application via the router WAN connection. Click “Disabled” on a profile to prevent users from accessing the application on the WAN.

**Name:** Type a descriptive name for the application.

**Trigger:** Defines the outgoing communication that determines whether the user has legitimate access to the application.

**Protocol:** Select the protocol (TCP, UDP, or ICMP) that can be used to access the application.

**Port Range:** Type the port range that can be used to access the application in the text boxes.

**Incoming:** Defines which incoming communications users are permitted to receive.

**Protocol:** Selects the protocol (TCP, UDP, or ICMP) that can be used by the incoming communication.

**Port:** Type the port number that can be used for the incoming communication.

**Add:** Click to add the special application profile to the table at the bottom of the screen.

**Update:** Click to update information for the special application if user have selected a list item and have made changes.

**Delete:** Select a list item and click Delete to remove the item from the list.

**Clear:** Click “New” to erase all fields and enter new information.

The screenshot shows the web interface of an 802.11g Wireless Broadband Router. The top navigation bar includes links for Mac Filter, Protocol Filter, IP filter, Virtual Server, Special AP, DMZ, Firewall Rule, and a HELP icon. A left sidebar contains menu items: Main, Wireless, Status, Routing, Access, Management, Tools, and Wizard. The main content area is for the DMZ configuration. It features a section labeled 'Enable' with radio buttons for 'Enabled' and 'Disabled' (which is selected). Below this is a text field for 'DMZ Host IP' containing '0.0.0.0'. An 'Apply' button is located at the bottom right of the configuration area.

*able:* Click to enable or disable the DMZ.

*DMZ Host IP:* Type a host IP address for the DMZ. The computer with this IP address acts as a host with unlimited Internet access.

*Apply:* Click to save the settings.

## 2.7 Firewall Rule

This screen enables user to set up the firewall. The router provides basic firewall functions, by filtering the packets that enter the router using a set of rules. The rules are in an order sequence list--the lower the rule number, the higher the priority the rule has.

The screenshot shows the web interface of an 802.11g Wireless Broadband Router, specifically the Firewall Rule configuration page. The top navigation bar and left sidebar are identical to the previous screenshot. The main content area is for configuring a new firewall rule. It includes a section for 'Enable' with radio buttons for 'Enable' and 'Disabled'. Below this is a 'Name' text field. The 'Action' section has radio buttons for 'Allow' and 'Deny'. There is an 'Inactive Timeout' text field followed by the word 'Second'. The rule configuration table has columns for 'Interface', 'IP Range Start', 'IP Range End', 'Protocol', and 'Protocol'. The 'Source' row shows a dropdown menu with '\*' selected, followed by empty text fields for 'IP Range Start' and 'IP Range End'. The 'Destination' row shows a dropdown menu with '\*' selected, followed by empty text fields for 'IP Range Start' and 'IP Range End'. The 'Protocol' column has a dropdown menu with 'TCP' selected, and the 'Protocol' column has an empty text field. At the bottom, there are buttons for 'Add', 'Update', 'Delete', 'New', 'Priority Up', 'Priority Down', and 'Update Priority'.



**Source:** Defines the source of the incoming packet where rule is applied.

**Interface:** Select which interface (WAN or LAN) the rule is applied to.

**IP Range Start:** Type the start IP address where rule is applied.

**IP Range End:** Type the end IP address where rule is applied.

**Destination:** Defines the destination of the incoming packet where rule is applied.

**Interface:** Select which interface (WAN or LAN) the rule is applied to.

**IP Range Start:** Type the start IP address where rule is applied.

**IP Range End:** Type the end IP address where rule is applied.

**Protocol:** Select the protocol (TCP, UDP, or ICMP) of the destination.

**Port Range:** Select the port range.

Click to add the rule profile to the table at the bottom of the screen.

**Update:** Click to update information for the rule if user have selected a list item and have made changes.

**Delete:** Select a list item and click “**Delete**” to remove the item from the list.

Click “**New**” to erase all fields and enter new information.

**Priority Up:** Select a rule from the list and click “**Priority Up**” to increase the priority of the rule.

**Priority Down:** Select a rule from the list and click “**Priority Down**” to decrease the priority of the rule.

**Update Priority:** After increasing or decreasing the priority of a rule, click “**Update Priority**” to save the changes.



## 6 Management

Management enables user to set up Remote Management features.

### 6.1 Remote Management

This screen enables user to set up remote management. Using remote management, the router can be configured via a Web browser. A user name and password are required to perform remote management.

**802.11g Wireless Broadband Router**

Remote Management

**Navigation Menu:** Main, Wireless, Status, Routing, Access, **Management**, Tools, Wizard

HTTP	Enable	<input type="radio"/> Enable <input checked="" type="radio"/> Disabled
	port	8080
Allow to Ping WAN Port	Remote IP Range	From * To
	Enable	<input checked="" type="radio"/> Enable <input type="radio"/> Disabled
UPNP Enable	Remote IP Range	From * To
	Enable	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Gaming mode	Enable	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled

Cancel Apply

**HTTP:** Enables user to set up HTTP access for remote management.

**Allow to Ping WAN Port:** Type a range of router IP addresses that can be pinged from remote location.

**UPNP:** UPNP is short for Universal Plug and Play that is a networking architecture that promotes compatibility among networking equipment, software, and peripherals. The Router is an UPnP enabled device and will only work with other UPnP devices/software. If user does not want to use the UPnP functionality, selecting “Disabled” can disable it.

**GAMING MODE:** If user is experiencing difficulties when playing online games or even voice applications that use voice data, user may need to enable Gaming Mode for these applications to work correctly. When not playing games or using these voice applications, it is recommended that Gaming Mode be disabled.

**PPTP:** Enables user to set up PPTP access for remote management.

**IPSec:** Enables user to set up IPSec access for remote management.

**STEALTH:** Default is stealth. This enables user to set port 113 stealth.

## 7 Tools



# 802.11g Wireless Broadband Router

▶ Restart ▶ Settings ▶ Firmware ▶ Ping test

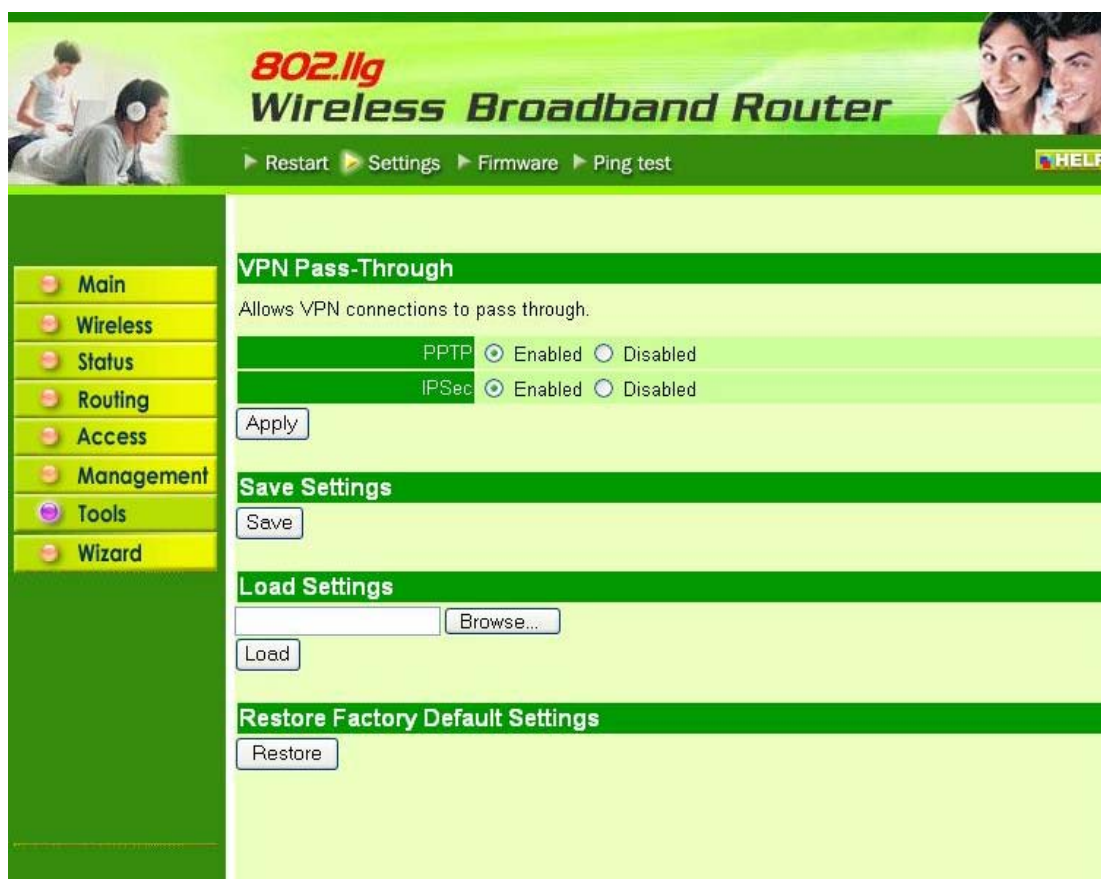


- Main
- Wireless
- Status
- Routing
- Access
- Management
- Tools
- Wizard

Restart

## 2 Settings

This screen enables user to save settings as a profile and load profiles for different circumstances. It also allows the user to load the factory default settings, and run a setup wizard to configure the router and its interface.



**802.11g Wireless Broadband Router**

▶ Restart ▶ Settings ▶ Firmware ▶ Ping test **HELP**

**VPN Pass-Through**  
Allows VPN connections to pass through.

PPTP ☒ Enabled ☐ Disabled  
IPSec ☒ Enabled ☐ Disabled

Apply

**Save Settings**  
Save

**Load Settings**  
Browse...  
Load

**Restore Factory Default Settings**  
Restore

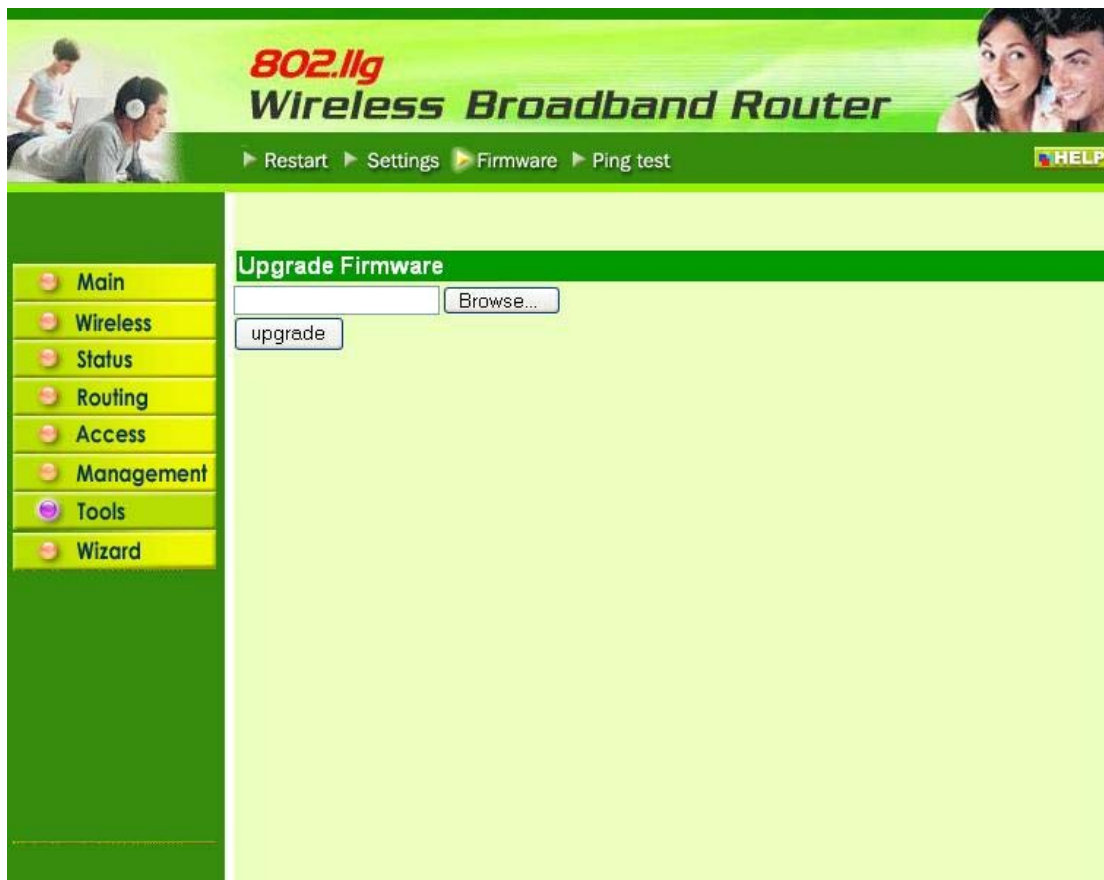
**Save Settings:** Click “Save” to save the current configuration as a profile that can load when necessary.

**Load Settings:** Click “Browse” and go to the location of a stored profile. Click “Load” to load the profile's settings.

**Restore Factory Default Settings:** Click “Restore” to restore the default settings. All configuration changes will be lost.

## Firmware

screen enables user to keep the router firmware up to date.



Follow the below instructions:

1. Download the latest firmware from the manufacturer's Web site, and save it to disk.

2. Click "Browse" and go to the location of the downloaded firmware file.

3. Select the file and click "Upgrade" to update the firmware to the latest release.

## 4 Ping Test

The ping test enables user to determine whether an IP address or host is present on the Internet. Enter host name or IP address in the text box and click Ping.



The screenshot shows the web interface of an 802.11g Wireless Broadband Router. The header features the brand name "802.11g" in red and "Wireless Broadband Router" in black. Navigation links include "Restart", "Settings", "Firmware", "Ping test", and a "HELP" button. A sidebar on the left contains menu items: "Main", "Wireless", "Status", "Routing", "Access", "Management", "Tools", and "Wizard". The main content area is titled "Host Name or IP address:" and contains a text input field and a "Ping" button.



This is a duplicate of the screenshot above, showing the same web interface for the 802.11g Wireless Broadband Router. It includes the header with the brand name, navigation links, a sidebar menu, and the main content area for the Ping test.

## Technical Specifications

Standards	IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.11g; IEEE 802.11b
Protocol	CSMA/CD
Radio Technology	IEEE 802.11g Orthogonal Frequency Division Modulation
Data Transfer Rate	802.11b: 1, 2, 5.5, 11Mbps (auto sense) 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps @802.11g(auto sense) Ethernet: 10Mbps (half duplex), 20Mbps (full-duplex) Fast Ethernet: 100Mbps (half duplex), 200Mbps (full- duplex)
Topology	Star
Receiver Sensitivity	54Mbps: Typical -70dBm @ 10% PER (Packet Error Rate) 11Mbps: Typical -85dBm @ 8% PER (Packet Error Rate)
TX Power	13dBm typically @ 802.11g 13dBm typically @ 802.11b
Network Cables	10Base-T: 2-pair UTP Cat. 3,4,5 (100 m), EIA/TIA- 568 100-ohm STP (100 m) 100Base-TX: 2-pair UTP Cat. 5 (100 m), EIA/TIA-568 100-ohm STP (100 m)
Frequency Range	2412 ~ 2484 MHz ISM band (channels 1 ~ 14)
Modulation Schemes	DBPSK/DQPSK/CCK/OFDM
Security	64/128-bits WEP Encryption; WPA, WPA-PSK
Channels	1 ~ 11 channels (FCC); 1 ~ 13 channels (ETSI); 1 ~ 14 channels (MKK)
Number of Ports	LAN: 4 x 10/100Mbps Auto-MDIX Fast Ethernet port WAN: 1 x 10/100Mbps Auto-MDIX Fast Ethernet port

## Physical and Environmental

DC inputs	DC 5V 2.5A
Power Consumption	3W (Max)
Temperature	Operating: 0° ~ 40° C, Storage: -10° ~ 70° C
Humidity	Operating: 10% ~ 90%, Storage: 5% ~ 90%
Dimensions	147 x 115 x 35 mm (W x H x D) without Antenna
EMI:	FCC Class B, CE Mark B