



# ***802.11n Wireless Broadband Router***

**WNRT-625**

**User's Manual**

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## **Federal Communication Commission 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 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 and, if not installed and used in accordance with the instructions, 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 to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

## **FCC Caution:**

To assure continued compliance, (example-use only shielded interface cables when connecting to computer or peripheral devices) any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the Following two conditions: (1) This device may not cause harmful interference, and (2) this Device must accept any interference received, including interference that may cause undesired operation.

## **Federal Communication Commission (FCC) Radiation Exposure Statement**

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

## **R&TTE Compliance Statement**

This equipment complies with all the requirements of DIRECTIVE 1999/5/CE OF THE EUROPEAN PARLIAMENT AND THE COUNCIL OF 9 March 1999 on radio equipment and telecommunication terminal Equipment and the mutual recognition of their conformity (R&TTE).

The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

## **Safety**

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

## **WEEE regulation**



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

## **Revision**

User's Manual for PLANET 802.11N Wireless Router

Model: WNRT-625

Rev: 1.0 (Apr. 2008)

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# Chapter 1 Introduction

Thank you for purchasing WNRT-625. This manual guides you on how to install and properly use the WNRT-625 in order to take full advantage of its features.

## 1.1 Package Contents

Make sure that you have the following items:

- One WNRT-625
- One Power Adapter
- One CD Disk
- One Quick Installation Guide
- One Ethernet Cable

**Note:** If any of the above items are missing, please contact your supplier for support.

## 1.2 Features

- Compliant with IEEE 802.11n (Draft 2.0) wireless technology
- Provides up to 150Mbps transmit and 300Mbps receive data rate
- Support Wi-Fi Protected Setup (WPS)
- Backward compatible with 802.11g / 802.11b standard
- Farther coverage, less dead spaces and higher throughput with 802.11n technology
- Supports 64/128-bit WEP, WPA (TKIP with IEEE 802.1x), WPA2 (AES with IEEE 802.1x) functions for high level of security
- AP/Station-Infrastructure/Bridge/WDS/Repeater modes supported
- IP/Protocol based QoS
- Equipped with four LAN ports (10/100M) and one WAN port (10/100M), Auto-MDI/MDI-X support
- Supports DHCP Server
- Easy to use Web-based GUI for configuration and management purposes
- Remotes Management allows configuration and upgrades from a remote site
- Dynamic/Static/PPPoE/PPTP/L2TP/Telstra Big Pond IP allocation
- MAC/IP filter access control, URL blocking
- SPI firewall + DoS prevention protection
- Supports UPnP function

## 1.3 Specification

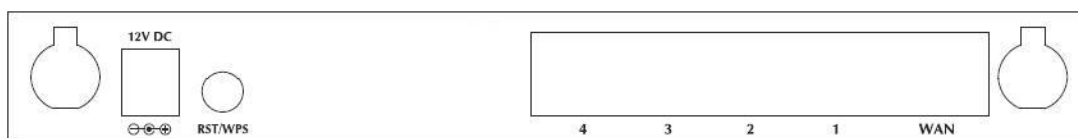
Standard	IEEE 802.11b/g, 802.11n Draft 2.0
Signal Type	11b mode: DSSS 11g mode: OFDM

	11n mode: OFDM, MIMO
Modulation	11b mode: CCK, DQPSK, DBPSK 11g mode: 64 QAM, 16 QAM, QPSK, BPSK 11n mode: 64 QAM, 16 QAM, QPSK, BPSK
WAN Port	1 x 100Base-TX, Auto-MDI/MDI-X
LAN Port	4 x 100Base-TX, Auto-MDI/MDI-X
Antenna connector	2 x Fixed Omni Antenna
Data Encryption	64 bit / 128 bit WEP, WPA-PSK, WPA, WPA2
Frequency	2.4GHz - 2.484GHz
Output Power	11b mode: 16~18dBm 11g mode: 14~16dBm 11n mode: 11~13dBm
Data Rate	IEEE 802.11b: 11/5.5/2/1M IEEE 802.11g: 54/48/36/24/18/12/9/6 IEEE 802.11n: 300/270/243/240/216/180/162/120/108Mbps in 40Mhz mode 145/130/117/104/ 78Mbps in 20Mhz mode
LED Indicators	PWR, WLAN LAN: LNK/ACT * 4, 100Mbps * 4 WAN: LNK/ACT * 1, 100Mbps * 1
Power Requirement	12V DC, 1A
Temperature	Operating :0 ~ 40 degree C Storage: -20 ~ 70 degree C
Humidity	Operating: 0 ~ 85% Storage: 0 ~ 95% Non-Condensing
Dimensions	190 x 98 x 31 mm
Weight	355g

# Chapter 2 Hardware Installation

Before you proceed with the installation, it is necessary that you have enough information about the WNRT-625.

## 2.1 Hardware Connection



- 1. Locate an optimum location for the WNRT-625.** The best place for your WNRT-625 is usually at the center of your wireless network, with line of sight to all of your mobile stations.
- 2. Adjust the antennas of WNRT-625.** Try to adjust them to a position that can best cover your wireless network. The antenna's position will enhance the receiving sensitivity.
- 3. Connect RJ-45 cable to WNRT-625 LAN port.** Connect one of the LAN ports on WNRT-625 to your LAN switch/hub or a computer with a RJ-45 cable.
- 4. Connect RJ-45 cable to WNRT-625 WAN port.** Connect xDSL/Cable Modem to the WAN port on WNRT-625. Usually, this cable would be provided with your modem. If no cable was supplied with your modem, please use a RJ-45 Ethernet cable
- 5. Plug in power adapter and connect to power source.** After power on, WNRT-625 will start to operate.

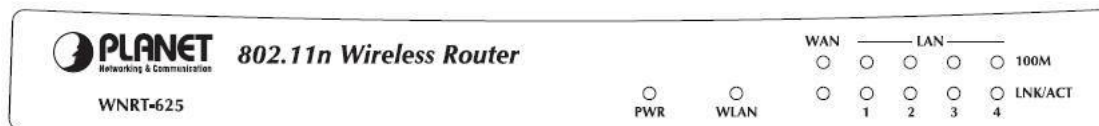
**Note:**

1. ONLY use the power adapter supplied with the WNRT-625. Otherwise, the product may be damaged.
2. If you want to reset WNRT-625 to default settings, press and hold the **RST**(reset) button over 30 seconds and release. And then wait for WNRT-625 restart.

<b>RST / WPS Button</b>	<p>This button has two functions:</p> <p><b>To Clear All Data and restore the factory default values:</b></p> <p>Press the RST (reset) button for longer than 30 seconds until the LED of power flash, and then the router will reset itself to the factory default settings.</p> <p>(warning: your original configurations will be replaced with the factory default settings)</p> <p><b>To make Wi-Fi Protected Setup (WPS) simple and easier:</b></p> <p>Press the WPS button (for less than 20 seconds), machine will start WPS function to build connection between wireless network clients and this wireless router.</p>
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## 2.2 LED Indicators



LED		Color	STATE	MEANING
PWR		Green	On	Device power on
			Off	Device power off
			Blinking	During boot up procedure
WLAN		Orange	Blinking	Transmitting or receiving data through the Wireless LAN
			Off	Wireless LAN is no function
WAN	100M	Green	On	WAN port is connected at 100Mbps
			Off	WAN port is disconnected at 100Mbps
	LNK/ACT	Green	On	Link is established
			Blinking	Packets are transmitting or receiving
LAN	100M	Green	On	LAN is connected to 100Mbps device
			Off	LAN is disconnected to 100Mbps device
	LNK/ACT	Green	On	Link is established
			Blinking	Packets are transmitting or receiving
			Off	LAN port is not connected

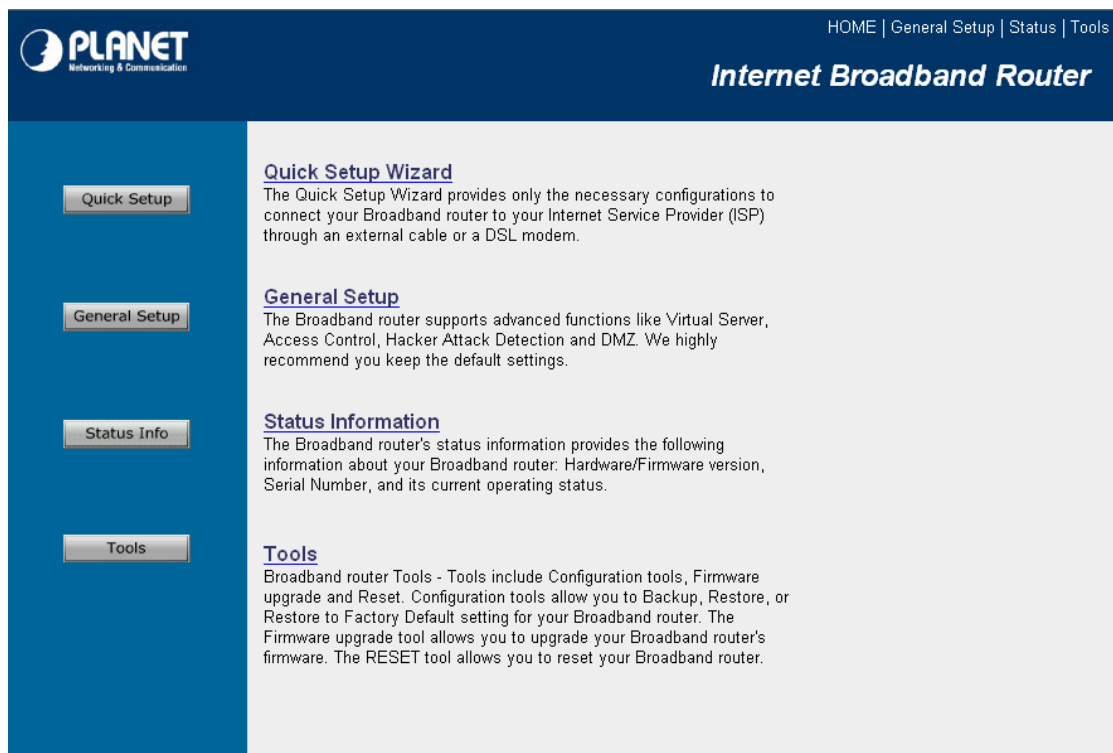
## Chapter 3 Web Login

A WNRT-625 with an assigned IP address allows you to monitor and configure via web browser (e.g., MS Internet Explorer or Netscape).

1. Open your web browser.
2. Enter the IP address of your WNRT-625 in the address field (default IP address is <http://192.168.0.1>).
3. Please enter your User Name and Password in the dialog box. Default User Name and Password are both “**admin**”. Click OK.



4. Then you will see the WNRT-625 HOME screen as below.



The left panel provides four options, **Quick Setup**, **General Setup**, **Status Information** and **Tools**.

Section	Description
Quick Setup	Select your Internet connection type and then input the configurations needed to connect to your Internet Service Provider (ISP).
General Setup	This section contains configurations for the Broadband router's advance functions such as: Port Forwarding, Virtual Server, Access Control, Hacker Attack Prevention, DMZ, Special applications and other functions to meet your LAN requirements. You can also configure the wireless detail settings here.
Status Info	This option provides you the system information, Internet Connection, Device Status, Security Log and DHCP client Log information.
Tools	This option contains Configuration tools, Firmware Upgrade and Reset functions.

## Chapter 4 Quick Setup

This section describes the basic configuration of the WNRT-625 and allows you to connect to Internet easily.

### 4.1 Time Zone

The time information is used for Log entries and Firewall settings. You can keep the default Time Server address or set a new IP address for your router to synchronize its time. Click “Next” to continue.

The screenshot shows the 'Time Zone' configuration page of a Planet Internet Broadband Router. The page has a dark blue header with the Planet logo and navigation links: Home, General Setup, Status, and Tool. Below the header, there's a sidebar with three menu items: 1. Time Zone (selected), 2. Broadband Type, and 3. IP Address Info. The main content area is titled 'Time Zone' and includes a help icon. Below the title, there's a description: 'Set the time zone of the Broadband router. This information is used for log entries and firewall settings.' The configuration fields are as follows: 'Set Time Zone' is a dropdown menu showing '(GMT)Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London'; 'Time Server Address' is a text input field containing '192.43.244.18'; 'Daylight Savings' is a checkbox labeled 'Enable Function' which is currently unchecked. Below the checkbox, there are two sets of dropdown menus for 'Times From' and 'To', both set to 'January' and '1'. A 'Next' button is located at the bottom right of the configuration area.

Parameter	Description
Set Time Zone	Select the time zone of the country you are currently in. The router will set its time based on your selection.
Time Server Address	Remain it as default or, you can manually assign an IP address of the Time Server. The information of Timer Server can be found in the following URL link: <a href="http://www.eecis.udel.edu/~mills/ntp/servers.html">http://www.eecis.udel.edu/~mills/ntp/servers.html</a> or <a href="http://www.ntp.org">http://www.ntp.org</a> .
Enable Daylight Savings	The router can also take Daylight savings into account. To enable this function, check/tick the “Enable Function” box and select which days this function will work.

Click “Next” button to proceed to the next step.

## 4.2 Broadband Type

Before establishing the Internet connection, please be sure to check with your ISP, and obtain all necessary information from them.

The screenshot shows the 'Internet Broadband Router' configuration page. On the left is a sidebar with a blue background containing the Planet logo and a navigation menu with three items: '1. Time Zone' (checked), '2. Broadband Type' (checked), and '3. IP Address Info' (selected with a red dot). The main content area has a white background and is titled 'Broadband Type'. It contains a description: 'Specify the WAN connection type required by your Internet Service Provider. Specify a Cable modem, Fixed-IP xDSL, PPPoE xDSL or PPTP xDSL connection.' Below this are six radio button options, each with a description: 'Cable Modem' (minimal configuration), 'Fixed-IP xDSL' (requires IP, subnet, gateway, and DNS info), 'PPPoE xDSL' (requires password and service name), 'PPTP xDSL' (requires password, local IP, remote IP, and connection ID), 'L2TP xDSL' (Layer Two Tunneling Protocol), and 'Telstra Big Pond' (for Australia). A 'Back' button is at the bottom right.

**Broadband Type**  
Specify the WAN connection type required by your Internet Service Provider. Specify a Cable modem, Fixed-IP xDSL, PPPoE xDSL or PPTP xDSL connection.

☐ **Cable Modem**  
A connection through a cable modem requires minimal configuration. When you set up an account with your Cable provider, the Cable provider and your Broadband router will automatically establish a connection, so you probably do not need to enter anything more.

☐ **Fixed-IP xDSL**  
Some xDSL Internet Service Providers may assign a Fixed IP Address for your Broadband router. If you have been provided with this information, choose this option and enter the assigned IP Address, Subnet Mask, Gateway IP Address and DNS IP Address for your Broadband router.

☐ **PPPoE xDSL**  
If you connect to the Internet using an xDSL Modem and your ISP has provided you with a Password and a Service Name, then your ISP uses PPPoE to establish a connection. You must choose this option and enter the required information.

☐ **PPTP xDSL**  
If you connect to the Internet using an xDSL Modem and your ISP has provided you with a Password, Local IP Address, Remote IP Address and a Connection ID, then your ISP uses PPTP to establish a connection. You must choose this option and enter the required information.

☐ **L2TP xDSL**  
Layer Two Tunneling Protocol is a common connection method used in xDSL connections.

☐ **Telstra Big Pond**  
If your Internet service is provided by Telstra Big Pond in Australia, you will need to enter your information below, This information is provided by Telstra BigPond.

[Back](#)

Broadband	Description
Cable Modem	ISP will automatically give you an IP address. Please refer to section 4.2.1 for details.
Fixed-IP Xdsl	ISP has given you a fixed IP address already. Please refer to section 4.2.2 for details.
PPPoE xDSL	ISP requires you to use a Point-to-Point Protocol over Ethernet (PPPoE) connection. Please refer to section 4.2.3 for details.
PPTP xDSL	ISP requires you to use a Point-to-Point Tunneling Protocol (PPTP) connection. Please refer to section 4.2.4 for details.
L2TP XDSL	This is not widely used. You need to know the PPTP Server address as well as your name and password. Please refer to section 4.2.5 for details.
Telstra Big Pond	This option is for Australia only. Please refer to section 4.2.6 for details.

### 4.2.1 Cable Modem

With Cable Modem connection, the ISP will automatically give you an IP address. Some ISP may also require you to fill in additional information such as Host Name and MAC address (see screen below).

**Note:** The Host Name and MAC address section is **optional** and you can skip this section if your ISP does not require these settings for you to connect to the Internet.

The screenshot shows the Planet Internet Broadband Router configuration interface. At the top, there is a navigation bar with the Planet logo and links for Home, General Setup, Status, and Tool. The main title is "Internet Broadband Router". On the left, a sidebar lists three steps: 1. Time Zone, 2. Broadband Type, and 3. IP Address Info, with the third step being the active one. The main content area is titled "3. IP Address Info" and "Cable Modem". It contains two input fields: "Host Name" and "MAC address". The "MAC address" field is pre-filled with "000000000000". Below these fields is a button labeled "Clone Mac address". At the bottom right, there are "Back" and "OK" buttons.

Parameters	Description
Host Name	Type in the host name provided by your ISP if any; otherwise, just leave it blank.
MAC Address	To connect to Internet, your ISP will require a MAC address from your PC. Type in this MAC address in this section or use the <b>"Clone MAC Address"</b> button to replace the WAN port MAC address with the your PC's.

When the configuration finished, click "OK" to next step or click "Back" to previous step. After press "OK", you will see a web screen to prompt you the configurations save successfully. You may press "Apply" to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

## 4.2.2 Fixed-IP xDSL

Select Fixed-IP xDSL if your ISP has given you a specified IP address. Your ISP should provide all the information required in this section.

The screenshot shows the Planet Internet Broadband Router configuration interface. At the top, there is a navigation bar with the Planet logo and links for Home, General Setup, Status, and Tool. The main title is "Internet Broadband Router". On the left, a sidebar lists three steps: 1. Time Zone, 2. Broadband Type, and 3. IP Address Info (which is highlighted). The main content area is titled "3. IP Address Info" and "Fixed-IP xDSL". It instructs the user to enter the IP Address, Subnet Mask, Gateway IP Address, and DNS IP Address provided by their ISP. Below this, there are four input fields: "IP address assigned by your Service Provider" (172.1.1.1), "Subnet Mask" (255.255.0.0), "DNS address" (empty), and "Service Provider Gateway Address" (172.1.1.254). At the bottom right, there are "Back" and "OK" buttons.

Parameters	Description
IP address assigned by your Service Provider	The IP address that your ISP should provide you.
Subnet Mask	Enter the Subnet Mask provided by your ISP (e.g. 255.255.255.0).
DNS Address	The IP address of ISP's DNS (Domain Name Service) Server.
Service Provider Gateway Address	The ISP's IP address gateway.

Please consult your local ISP about the information above. When the configuration is finished, please click "OK" to next step or click "Back" to previous step. After pressing "OK", you will see a web screen to prompt you the configurations were saved successfully. Please refer to section 4.2.7 for the information of this screen.

### 4.2.3 PPPoE xDSL

Select PPPoE if your ISP requires the PPPoE protocol for Internet connectivity. Your ISP should provide all the information like user name, password required in this section.

The screenshot shows the '3.IP Address Info' section of the Planet Internet Broadband Router configuration interface. The left sidebar contains a menu with three items: '1.Time Zone', '2.Broadband Type', and '3.IP Address Info', with the third item being selected. The main content area is titled '3.IP Address Info' and 'PPPoE'. It contains a text box for 'User Name', a password field for 'Password', a text box for 'Service Name', an 'MTU' field set to 1392 with a note '(512<=MTU Value<=1492)', a 'Connection Type' dropdown menu set to 'Continuous' with 'Connect' and 'Disconnect' buttons, and an 'Idle Time Out' field set to 10 with a note '(1-1000minutes)'. At the bottom right are 'Back' and 'OK' buttons.

Parameters	Description
User Name	Enter the User Name provided by your ISP for the PPPoE connection.
Password	Enter the Password provided by your ISP for the PPPoE connection.
Service Name	This is an optional parameter. Leave it blank unless your ISP requires it.
MTU	This is an optional parameter. You can specify the maximum size of transmission packet to the Internet. The range of the MTU will be from 512 to 1492. You can also consult you ISP for the optimal MTU as well. Default: 1392.
Connection Type	<p>If you select “<b>Continuous</b>”, the router will always connect to the ISP. If the WAN line breaks down and links again, the router wills auto-reconnect to the ISP.</p> <p>If you select “<b>Connect On Demand</b>”, the router will auto-connect to the ISP when a client in LAN want to use the Internet and keep connected until the WAN idle timeout. The router will close the WAN connection if the time period that no one is using the Internet exceeds the “<b>Idle Time</b>”.</p> <p>If you select “<b>Manual</b>”, the router will connect to ISP only when you click “Connect” manually from the Web user interface. The WAN connection will not disconnected due to the idle timeout. If the WAN line breaks down and latter links again, the router will not auto-connect to the ISP. Default: <b>Continuous</b>.</p>
Idle Time	<p>You can specify an idle time threshold (minutes) for the WAN port. This means if no packets have been sent (no one using the Internet) during this specified period, the router will automatically disconnect the connection from your ISP.</p> <p><b>Note:</b> This “idle timeout” function may not work due to abnormal activities of some</p>



	network application software, computer virus or hacker attacks from the Internet. For example, some software sends network packets to the Internet in the background, even when you are not using the Internet. So please turn off your computer when you are not using it. This function also may not work with some ISP. So please make sure this function can work properly, especially when your ISP charges you by time used.
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When the configuration finished, click “Apply” to next step or click “Cancel” to previous step. After press “Apply”, you will see a web screen to prompt you the configurations save successfully. Please refer to section 4.2.7 for the information of this screen.

## 4.2.4 PPTP xDSL

Select PPTP if your ISP requires the PPTP protocol to connect to the Internet. Your ISP should provide all the information required in this section.

Parameter	Description
Obtain an IP address	Select it if the ISP requires you to obtain an IP address by DHCP automatically.
Host Name	Type in the host name provided by your ISP if any; otherwise, just leave it blank.
MAC Address	To connect to the Internet, your ISP will require a MAC address from your PC. Type in this MAC address in this section or use the “Clone MAC Address” button to replace the WAN port MAC address with the MAC address of that PC.
Use the following IP	Select it if the ISP provides you a static IP to connect to the PPTP server.

address	
IP Address	This is the IP address that your ISP has given you to establish a PPTP connection.
Subnet Mask	Enter the Subnet Mask provided by your ISP (e.g. 255.255.255.0)
Gateway	Enter the IP address of the ISP's Gateway.
User ID	Enter the User Name provided by your ISP for the PPTP connection. Sometimes called a Connection ID.
Password	Enter the Password provided by your ISP for the PPTP connection
PPTP Gateway	If your LAN has a PPTP gateway, enter that PPTP gateway's IP address here. If you do not have a PPTP gateway, enter the ISP's Gateway IP address above.
Connection ID	This is the ID given by ISP. This is an optional parameter.
MTU	This is an optional parameter. You can specify the maximum size of transmission packet to the Internet. The range of the MTU will be from 512 to 1492. You can also consult you ISP for the optimal MTU as well. Default: 1392
BEZEQ-ISRAEL	Select this item if you are using the service provided by BEZEQ in Israel.
Connection Type	<p>If you select "<b>Continuous</b>", the router will always connect to the ISP. If the WAN line breaks down and links again, the router shall auto- reconnect to the ISP.</p> <p>If you select "<b>Connect On Demand</b>", the router will auto-connect to the ISP when a client in LAN wants to use the Internet and keep connected until the WAN idle timeout. The router will close the WAN connection if the time period that no one is using the Internet exceeds the "Idle Time".</p> <p>If you select "<b>Manual</b>", the router will connect to ISP only when you click "Connect" manually from the Web user interface. The WAN connection will not disconnect due to the idle timeout. If the WAN line breaks down and latter links again, the router will not auto-connect to the ISP. Default: <b>Continuous</b>.</p>
Idle Time	<p>You can specify an idle time threshold (minutes) for the WAN port. This means if no packets have been sent (no one using the Internet) throughout this specified period, the router will automatically disconnect to with your ISP.</p> <p><b>Note:</b> This "idle timeout" function may not work due to abnormal activities of some network application software, computer virus or hacker attacks from the Internet. For example, some software sends network packets to the Internet in the background, even when you are not using the Internet. So please turn off your computer when you are not using it. This function also may not work with some ISP. So please make sure this function can work properly, especially when your ISP charges you by time used.</p>

When the configuration finished please click "OK" to next step or click "Back" to previous step. After press "OK", you will see a web screen to prompt you the configurations save successfully. Please refer to section 4.2.7 for the information of this screen.

## 4.2.5 L2TP xDSL

Select L2TP if your ISP requires the L2TP protocol to connect to the Internet. Your ISP should provide all the information required in this section.

The screenshot shows the configuration interface of a Planet Internet Broadband Router. The top navigation bar includes links for Home, General Setup, Status, and Tool. The main title is "Internet Broadband Router". On the left, a sidebar lists three steps: 1. Time Zone, 2. Broadband Type, and 3. IP Address Info, with the third step being the active one. The main content area is titled "3. IP Address Info" and "L2TP". It explains that L2TP is a common connection method used in xDSL connections. Under "WAN Interface Settings", there are two options: "Obtain an IP address automatically" (selected) and "Use the following IP address". The first option includes fields for Host Name, MAC address (with a "Clone Mac address" button), and IP address, Subnet Mask, and Default Gateway. The second option includes fields for IP address, Subnet Mask, and Default Gateway. Under "L2TP Settings", there are fields for User ID, Password, L2TP Gateway, MTU (set to 1392, with a note "(512<=MTU Value<=1492)"), Connection Type (set to Continuous, with "Connect" and "Disconnect" buttons), and Idle Time Out (set to 10, with a note "(1-1000 minutes)"). At the bottom right, there are "Back" and "OK" buttons.

Parameter	Description
Obtain an IP address	Select it if the ISP requires you to obtain an IP address by DHCP automatically.
Host Name	If your ISP requires a Host Name, type in the host name provided by your ISP; otherwise, just leave it blank.
MAC Address	To connect to the Internet, your ISP will require a MAC address from your PC. Type in this MAC address in this section or use the "Clone MAC Address" button to replace the WAN port MAC address with the MAC address of that PC.
Use the following IP address	Select it if the ISP provides you a static IP to connect to the L2TP server.
IP Address	This is the IP address that your ISP has given you to establish a L2TP connection.
Subnet Mask	Enter the Subnet Mask provided by your ISP (e.g. 255.255.255.0)
Gateway	Enter the IP address of the ISP's Gateway.
User ID	Enter the User Name provided by your ISP for the L2TP connection. Sometimes called a Connection ID.
Password	Enter the Password provided by your ISP for the L2TP connection

L2TP Gateway	If your LAN has a L2TP gateway, enter that L2TP gateway's IP address here. If you do not have a L2TP gateway, enter the ISP's Gateway IP address above.
MTU	This is an optional parameter. You can specify the maximum size of transmission packet to the Internet. The range of the MTU will be from 1492 to 512. You can also consult you ISP for the optimal MTU as well. Default: 1392
Connection Type	<p>If you select "<b>Continuous</b>", the router will always connect to the ISP. If the WAN line breaks down and links again, the router shall auto- reconnect to the ISP.</p> <p>If you select "<b>Connect On Demand</b>", the router will auto-connect to the ISP when someone wants to use the Internet and keep connected until the WAN idle timeout. The router will close the WAN connection if the time period that no one is using the Internet exceeds the "Idle Time".</p> <p>If you select "<b>Manual</b>", the router will connect to ISP only when you click "Connect" manually from the Web user interface. The WAN connection will not disconnect due to the idle timeout. If the WAN line breaks down and latter links again, the router will not auto-connect to the ISP. Default: <b>Continuous</b>.</p>
Idle Time	<p>You can specify an idle time threshold (minutes) for the WAN port. This means if no packets have been sent (no one using the Internet) throughout this specified period, then the router will automatically disconnect the connection with your ISP.</p> <p><b>Note:</b> This "idle timeout" function may not work due to abnormal activities of some network application software, computer virus or hacker attacks from the Internet. For example, some software sends network packets to the Internet in the background, even when you are not using the Internet. So please turn off your computer when you are not using it. This function also may not work with some ISP. So please make sure this function can work properly, especially when your ISP charges you by time used.</p>

When the configuration finished please click "OK" to next step or click "Back" to previous step. After press "OK", you will see a web screen to prompt you the configurations save successfully. Please refer to section 4.2.7 for the information of this screen.

## 4.2.6 Telstra Big Pond

Select Telstra Big Pond if you are live in Australia and your ISP requires this protocol to connect to the Internet. Your ISP should provide all the information required in this section.

PLANET Networking & Communication

| Home | General Setup | Status | Tool |

## Internet Broadband Router

**3.IP Address Info**

**Telstra Big Pond (Australia Only)**  
If your Internet service is provided by Telstra Big Pond in Australia, you will need to enter your information below, This information is provided by Teistra BigPond.

User Name :

Password :

☐ User decide login server manually

Login Server :

Back OK

Parameters	Description
User Name	Enter the User Name provided by your ISP for the connection.
Password	Enter the Password provided by your ISP for the connection.
User Decide login server manually	If you ISP has provide the login server IP address to you, please check this box and enter the Login Server IP address below.
Login Server	Please enter the Login Server IP address here.

When the configuration finished please click “OK” to next step or click “Back” to previous step. After press “OK”, you will see a web screen to prompt you the configurations save successfully. Please refer to section 4.2.7 for the information of this screen.

## 4.2.7 Save Settings Successfully

When you press “OK” in above configuration, the settings will be saved and the screen appears as below. Before WNRT-625 restart, the settings are saved, but not function yet. Press “Apply” to restart the WNRT-625 for the change to take effect immediately.

PLANET Networking & Communication

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## Internet Broadband Router

**Save setting successfully!**

Please press APPLY button to restart the system for changes to take effect.

Apply

Please wait for 30 seconds for WNRT-625 restart. After restart procedure finished, please click “OK” to return to HOME screen.

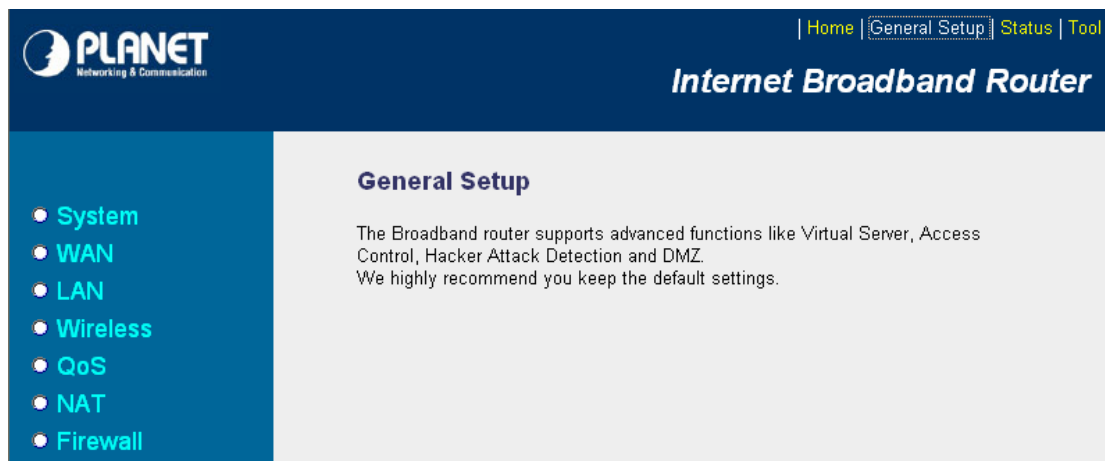
- ✓ 1. Time Zone
- ✓ 2. Broadband Type
- ✓ 3. IP Address Info

System Restarting! Please wait for a while !

OK!

## Chapter 5 General Setup

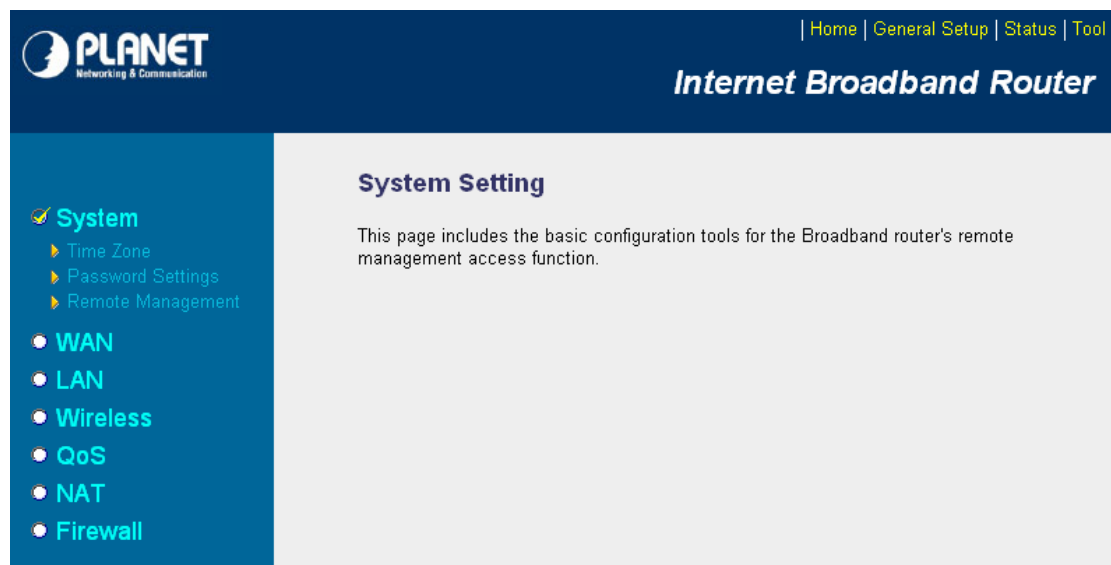
After click on the “General Setup” button at the main Page, you should see the screen below.



The General Setup contains advanced features that allow you to configure the router to meet the network's needs such as: Wireless, Port Forwarding, Virtual Server, Access Control, URL Blocking, Special Applications, DMZ and other functions.

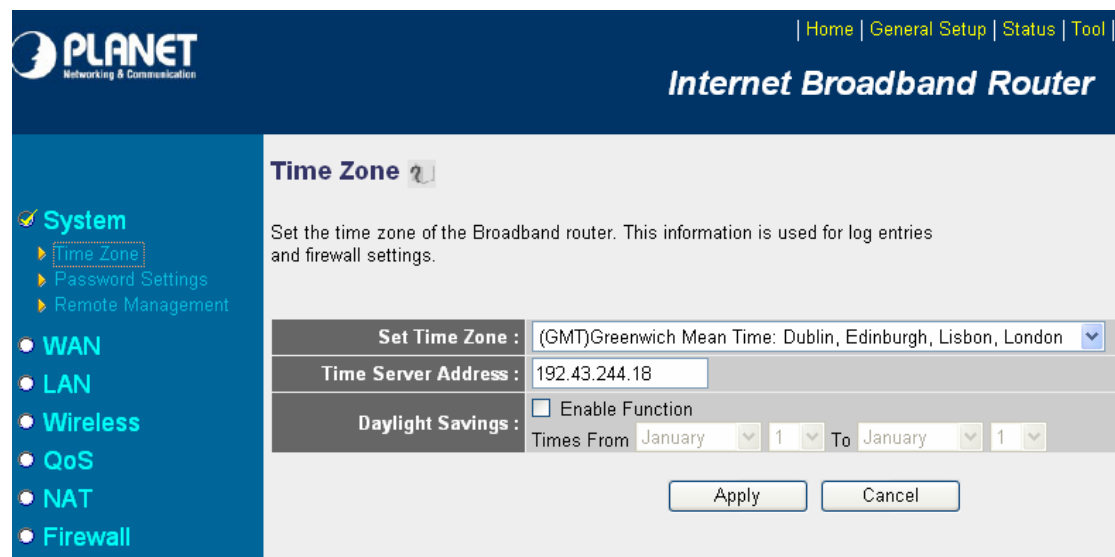
## 5.1 System

This section shows how to setup the Broadband router's system Time Zone, Password and Remote Management Administrator.



### 5.1.1 Time Zone

The Time Zone allows WNRT-625 to allocate its time on the settings configured here; it will affect log display functions such as Security Log and Firewall settings.



Parameter	Description
Set Time Zone	Select the time zone of the country you are currently in. The router will set its time based on your selection.



Time Server Address	You can keep the default IP address or enter a new Time Server Address for this device to synchronize its time. You can also refer to the web site <a href="http://www.ntp.org">http://www.ntp.org</a> to find a nearest time server.
Daylight Savings	The router can also take Daylight savings into account. Select the check box to enable your daylight saving configuration. You can set the days that you wish to start and stop daylight Savings Time.

After the setup completed, please click “Apply” to save the settings. After press “Apply”, you will see a web screen to prompt you the configurations save successfully. You may refer to section 4.2.7 for the information of this screen.

## 5.1.2 Password Setup

This screen allows you to change the management password.

Parameters	Description
Current Password	Enter your current password for the remote management administrator to login to your Broadband router.
New Password	Enter your new password.
Confirmed Password	Enter your new password again for verification purposes.

After the setup completed, please click “Apply” to save the settings. After press “Apply”, you will see a web screen to prompt you the configurations save successfully. You may refer to section 4.2.7 for the information of this screen.

**Note:** If you forget the password, please reset the WNRT-625 to the factory default by press **RST/WPS** button (on WNRT-625's rear panel) over 30 seconds.

### 5.1.3 Remote Management

You can specify a Host IP address that can perform remote management from Internet.

The screenshot shows the 'Remote Management' configuration page of a Planet Internet Broadband Router. The page has a dark blue header with the Planet logo and navigation links: Home, General Setup, Status, and Tool. A left sidebar contains a menu with System (Time Zone, Password Settings, Remote Management), WAN, LAN, Wireless, QoS, NAT, and Firewall. The main content area is titled 'Remote Management' and includes a help icon. Below the title, a text block explains the function: 'The remote management function allows you to designate a host in the Internet to have management/configuration access to the Broadband router from a remote site. Enter the designated host IP Address in the Host IP Address field.' A table with three columns: 'Host address', 'Port', and 'Enabled'. The 'Host address' field contains '0.0.0.0', the 'Port' field contains '8080', and the 'Enabled' checkbox is unchecked. At the bottom right are 'Apply' and 'Cancel' buttons.

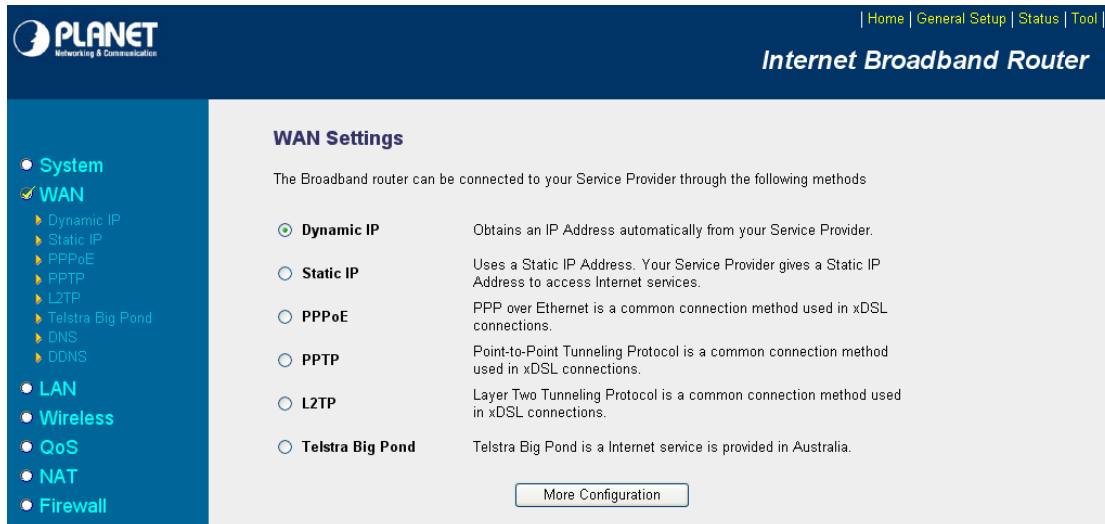
Host address	Port	Enabled
0.0.0.0	8080	<input type="checkbox"/>

Parameters	Description
Host Address	<p>The IP address of the host on Internet that will have management / configuration access to the Broadband router. Leave it to <b>0.0.0.0</b> means anyone can access the router's web-based configuration from any remote location.</p> <p>Click the <b>Enabled</b> box to enable the Remote Management function.</p> <p><b>Note:</b> When you want to access the web-based management from a remote site, you must enter the router's WAN IP address (e.g. 10.0.0.1) into your web-browser followed by port number 8080, e.g. 10.0.0.1:8080 (see below). You'll also need to know the password set in the Password Setting screen in order to access the management pages.</p>

After the setup completed, please click "Apply" to save the settings. After press "Apply", you will see a web screen to prompt you the configurations save successfully. You may refer to section 4.2.7 for the information of this screen.

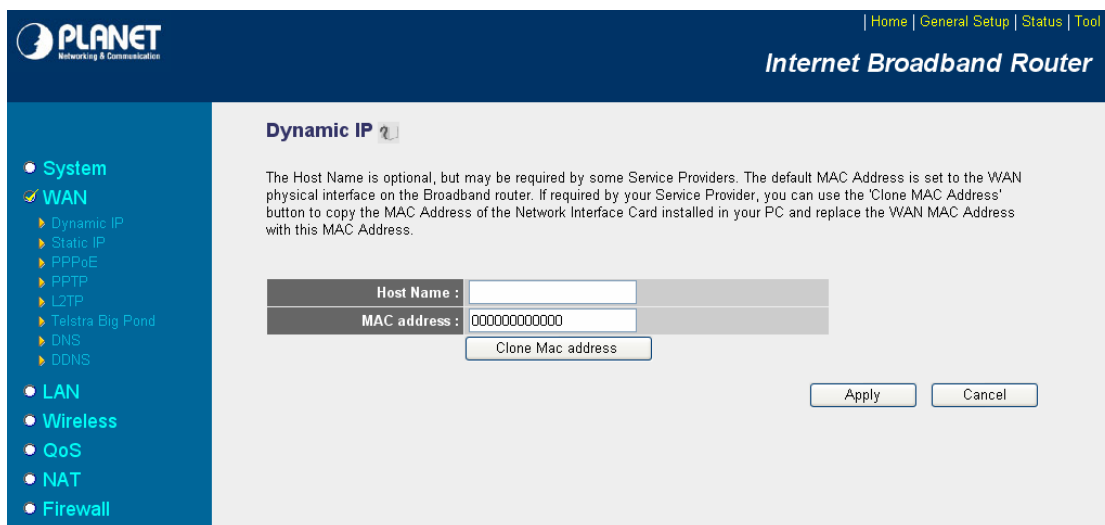
## 5.2 WAN

The WAN Settings screen allows you to specify the type of Internet connection. The WAN settings offer the following selections for the router's WAN port, **Dynamic IP**, **Static IP**, **PPPoE**, **PPTP**, **L2TP**, and **Telstra Big Pond**. Please select one of the connection types and click "More Configuration" button or select the option on the left window for configuration.



### 5.2.1 Dynamic IP

If Dynamic IP is selected, your ISP will automatically give you an IP address. Some ISP's may also require that you fill in additional information such as Host Name, Domain Name and MAC address. Please refer to the section 4.2.1 for more settings of this option.



### 5.2.2 Static IP

If Static IP is selected, your ISP should provide all the information required in this screen. Please refer to the section 4.2.2 for more settings of this option.

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## Internet Broadband Router

- System
- WAN
  - Dynamic IP
  - Static IP
  - PPPoE
  - PPTP
  - L2TP
  - Telstra Big Pond
  - DNS
  - DDNS
- LAN
- Wireless
- QoS
- NAT
- Firewall

### Static IP

If your Service Provider has assigned a Fixed IP address; enter the assigned IP Address, Subnet Mask and the Gateway IP Address provided.

IP address assigned by your Service Provider :	172.1.1.1
Subnet Mask :	255.255.0.0
Service Provider Gateway Address :	172.1.1.254

Apply
Cancel

### 5.2.3 PPPoE

Select PPPoE if your ISP requires PPPoE protocol to connect to the Internet. Your ISP should provide all the information required in this section. Please refer to the section 4.2.3 to know the detail settings of this option.

Home | General Setup | Status | Tool

## Internet Broadband Router

- System
- WAN
  - Dynamic IP
  - Static IP
  - PPPoE
  - PPTP
  - L2TP
  - Telstra Big Pond
  - DNS
  - DDNS
- LAN
- Wireless
- QoS
- NAT
- Firewall

### PPPoE

Enter the PPPoE User Name and Password assigned by your Service Provider. The Service Name is normally optional, but may be required by some Service Providers. Enter a Idle Time (in minutes) to define a maximum period of time for which the Internet connection is maintained during inactivity. If the connection is inactive for longer than the Maximum Idle Time, then the connection will be dropped. You can enable the Connect on Demand option to automatically re-establish the connection as soon as you attempt to access the Internet again.


If your Internet Service Provider requires the use of PPPoE, enter the information below.

User Name :	
Password :	
Service Name :	
MTU :	1392 (512<=MTU Value<=1492)
Connection Type :	Continuous <span>Connect</span> <span>Disconnect</span>
Idle Time Out :	10 (1-1000minutes)

Apply
Cancel

### 5.2.4 PPTP

Select PPTP if your ISP requires the PPTP protocol to connect to the Internet. Your ISP should provide all the information required in this section. Please refer to section 4.2.4 for more settings of this option.



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Internet Broadband Router

- System
- WAN
  - Dynamic IP
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  - L2TP
  - Telstra Big Pond
  - DNS
  - DDNS
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- Wireless
- QoS
- NAT
- Firewall

### PPTP

Point-to-Point Tunneling Protocol is a common connection method used in xDSL connections.

- WAN Interface Settings**
  - ☒ Obtain an IP address automatically

Host Name :

MAC address : 000000000000 Clone Mac address
  - ☐ Use the following IP address

IP address : 0.0.0.0

Subnet Mask : 0.0.0.0

Default Gateway : 0.0.0.0
- PPTP Settings**

User ID :

Password :

PPTP Gateway : 0.0.0.0

Connection ID : (Optional)

MTU : 1392 (512<= MTU Value<=1492)

BEZEQ-ISRAEL : ☐ Enable (for BEZEQ network in ISRAEL use only)

Connection Type : Continuous


Connect

Disconnect

Idle Time Out : 10 (1-1000minutes)

## 5.2.5 L2TP

Select L2TP if your ISP requires the L2TP protocol to connect to the Internet. Your ISP should provide all the information required in this section. Please refer to section 4.2.5 for more settings of this option.



[Home](#) | [General Setup](#) | [Status](#) | [Tool](#)

Internet Broadband Router

- System
- WAN
  - Dynamic IP
  - Static IP
  - PPPoE
  - PPTP
  - L2TP
  - Telstra Big Pond
  - DNS
  - DDNS
- LAN
- Wireless
- QoS
- NAT
- Firewall

### L2TP

Layer Two Tunneling Protocol is a common connection method used in xDSL connections.

- WAN Interface Settings**
  - ☒ Obtain an IP address automatically

Host Name :

MAC address : 000000000000 Clone Mac address
  - ☐ Use the following IP address

IP address : 0.0.0.0

Subnet Mask : 0.0.0.0

Default Gateway : 0.0.0.0
- L2TP Settings**

User ID :

Password :

L2TP Gateway :

MTU : 1392 (512<=MTU Value<=1492)

Connection Type : Continuous

Connect

Disconnect

Idle Time Out : 10 (1-1000 minutes)

Apply

Cancel


## 5.2.6 Telstra Big Pond

Select Telstra Big Pond if your ISP requires the Telstra Big Pond protocol to connect you to the Internet. Telstra Big Pond protocol is used by the ISP in Australia. Your ISP should provide all the information required in this section. Please refer to section 4.2.6 for more settings of this option.

The screenshot shows the configuration interface for a Planet Internet Broadband Router. The top navigation bar includes links for Home, General Setup, Status, and Tools. The left sidebar lists various configuration categories: System, WAN (selected), LAN, Wireless, QoS, NAT, and Firewall. Under the WAN category, several options are listed: Dynamic IP, Static IP, PPPoE, PPTP, L2TP, Telstra Big Pond (highlighted with a red box), DNS, and DDNS. The main content area is titled 'Telstra Big Pond' and contains a note: 'If your Internet service is provided by Telstra Big Pond in Australia, you will need to enter your information below, This information is provided by Teistra BigPond.' Below the note are three input fields: 'User Name', 'Password', and 'Login Server' (with a default value of 0.0.0.0). There is also a checkbox labeled 'User decide login server manually'. At the bottom right of the form are 'Apply' and 'Cancel' buttons.

## 5.2.7 DNS

A Domain Name System (DNS) server is like an index of IP addresses and Web addresses. If you type a Web address into your browser, such as [www.router.com](http://www.router.com), a DNS server will find that name in its index and the matching IP address. Most ISPs provide a DNS server for efficiency and convenience. If your Service Provider connects you to the Internet with dynamic IP settings, it is likely that the DNS server IP address is provided automatically. However, if there is a DNS server that you would rather to use, please specify the IP address of that DNS server here.



[Home](#) | [General Setup](#) | [Status](#) | [Tool](#)

Internet Broadband Router

- System
- **WAN**
  - ▶ Dynamic IP
  - ▶ Static IP
  - ▶ PPPoE
  - ▶ PPTP
  - ▶ L2TP
  - ▶ Telstra Big Pond
  - ▶ **DNS**
  - ▶ DDNS
- LAN
- Wireless
- QoS
- NAT
- Firewall

### DNS ?

A Domain Name System (DNS) server is like an index of IP Addresses and Web Addresses. If you type a Web address into your browser, such as [www.broadbandrouter.com](http://www.broadbandrouter.com), a DNS server will find that name in its index and find the matching IP address. Most ISPs provide a DNS server for speed and convenience. Since your Service Provider may connect you to the Internet through dynamic IP settings, it is likely that the DNS server IP Address is also provided dynamically. However, if there is a DNS server that you would rather use, you need to specify the IP Address of that DNS server. The primary DNS will be used for domain name access first, in case the primary DNS access failures, the secondary DNS will be used. Has your Internet service provider given you a DNS address?

DNS address :


Secondary DNS Address (optional) :

Parameters	Description
DNS address	This is the ISP's DNS server IP address that they gave you; or you can specify your own preferred DNS server IP address.
Secondary DNS Address (optional)	This is optional. You can enter another DNS server's IP address as a backup. The secondary DNS will be used when the above primary DNS fails.

After configuration complete, please click “Apply” button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press “Continue” for configure other settings or “Apply” to restart WNRT-625 with new configuration. You may refer to section 4.2.7 for the information of this screen.

### 5.2.8 DDNS

DDNS allows you to map the static domain name to a dynamic IP address. You must get an account, password and your static domain name from the DDNS service providers. This router supports DynDNS and TZO.


Home | General Setup | Status | Tool

Internet Broadband Router

- System
- WAN
  - Dynamic IP
  - Static IP
  - PPPoE
  - PPTP
  - L2TP
  - Telstra Big Pond
  - DNS
  - DDNS
- LAN
- Wireless
- QoS
- NAT
- Firewall

### DDNS ?

DDNS allows users to map the static domain name to a dynamic IP address. You must get a account, password and your static domain name from the DDNS service providers. Our products have DDNS support for [www.dyndns.org](http://www.dyndns.org) and [www.tzo.com](http://www.tzo.com) now.

Dynamic DNS :	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
Provider :	<span>DynDNS</span>
Domain Name :	<input type="text"/>
Account / E-Mail :	<input type="text"/>
Password / Key :	<input type="text"/>

Apply
Cancel

Parameters	Description
Dynamic DNS	Enable/Disable the DDNS function of this router.
Provider	Select a DDNS service provider. The default setting is "DynDNS".
Domain name	Your static domain name that use DDNS.
Account / E-mail	The account that your DDNS service provider assigned to you.
Password / Key	The password you set for the DDNS service account above.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press "Continue" for configure other settings or "Apply" to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.



## 5.3 LAN

The LAN Port screen below allows you to specify a private IP address for your router's LAN interface.

**PLANET** Networking & Communication

Home | General Setup | Status | Tool

**Internet Broadband Router**

### LAN Settings

You can enable the Broadband router's DHCP server to dynamically allocate IP Addresses to your LAN client PCs. The broadband router must have an IP Address for the Local Area Network.

- LAN IP**

IP address	192.168.0.1
Subnet Mask	255.255.255.0
802.1d Spanning Tree	Disabled
DHCP Server	Enabled
- DHCP Server**

Lease Time	Forever
Start IP	192.168.0.100
End IP	192.168.0.200
Domain Name	
- Static DHCP Leases Table**  
It allows to entry 16 sets address only.

NO.	MAC address	IP address	Select

Delete Selected Delete All Reset

☐ Enable Static DHCP Leases

New 

MAC address :		IP address :		Add	Clear
---------------	--	--------------	--	-----	-------

Apply Cancel

Parameters	Description
<b>LAN IP</b>	Please input the IP address of this router.
IP Address	Designate the Access Point's IP Address. This IP Address should be unique in your network. The default IP Address is <b>192.168.0.1</b> .
Subnet Mask	Specify a Subnet Mask for your LAN segment. The Subnet Mask of the Access Point is fixed and the value is <b>255.255.255.0</b> .
802.1d Spanning Tree	If it is enabled, this router will use the spanning tree protocol to prevent from network loop happened in the LAN ports.
DHCP Server	Enable or disable the DHCP Server.

<b>DHCP Server</b>	These settings are only available when 'DHCP Server' in 'LAN IP' section is 'Enabled'
Lease Time	The DHCP Server will temporarily assign IP addresses to LAN clients. In the Lease Time setting you can specify the time period that the DHCP Server lends an IP address to your LAN client. The DHCP Server will change your LAN client's IP address when this time threshold period is reached.

Start IP/End IP	You can designate a particular IP address range for your DHCP server to issue IP addresses to your LAN Clients. By default the IP range is from: Start IP <b>192.168.0.100</b> to End IP <b>192.168.0.200</b> .
Domain Name	You can specify the Domain Name for your Access Point.

<b>Static DHCP Leases Table</b>	This function allows you to assign a static IP address to a specific computer forever, so you don't have to set the IP address for a computer, and still enjoy the benefit of using DHCP server. Maximum 16 static IP addresses can be assigned here.
Enable Static DHCP Leases	Check this box to enable this function, otherwise uncheck it to disable this function.
MAC Address	Input the MAC address of the computer or network device (total 12 characters, with character from 0 to 9, and from a to f, like '001122aabbcc')
IP address	Input the IP address you want to assign to this computer or network device.
Add	After you inputted MAC address and IP address pair, click this button to add the pair to static DHCP leases table.
Clear	If you want to remove all characters you just entered, please click it.

**Note:**

After you clicked 'Add', the MAC address and IP address mapping will be added to 'Static DHCP Leases Table' section as below.

• **Static DHCP Leases Table**

It allows to entry 16 sets address only.

NO.	MAC address	IP address	Select
1	00:11:22:33:44:55	192.168.2.100	<input type="checkbox"/>

Delete Selected

Delete All

Reset

If you want to delete a specific item, please check the "Select" box of a MAC address and IP address mapping, then click "Delete Selected" button; if you want to delete all mappings, click "Delete All" button. If you want to deselect all mappings, click "Reset" button.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press "Continue" for configure other settings or "Apply" to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

## 5.4 Wireless

This screen allows you to Enable/Disable WNRT-625 wireless function.

**PLANET**  
Networking & Communication

| Home | General Setup | Status | Tool |

**Internet Broadband Router**

- System
- WAN
- LAN
- ✓ **Wireless**
  - ▶ Basic Settings
  - ▶ Advance Settings
  - ▶ Security Settings
  - ▶ Access Control
  - ▶ WPS
- QoS
- NAT
- Firewall

### Wireless Settings

The gateway can be quickly configured as a wireless access point for roaming clients by setting the access identifier and channel number. It also supports data encryption and client filtering.

Enable or disable Wireless module function : ☒ Enable ☐ Disable

Apply

Parameters	Description
Enable/Disable	You can select to “ <b>Enable</b> ” or “ <b>Disable</b> ” the Wireless interface. After selected, please click “Apply” to make the settings effect.

After configuration complete, please click “Apply” button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press “Continue” for configure other settings or “Apply” to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

### 5.4.1 Basic Settings

WNRT-625 supports not only Access Point function, but also provides Bridge and WDS mode. Please Refer to “**Chapter 6 Wireless Configuration**” know the details settings of wireless Basic Settings. In Default, WNRT-625 will work with AP mode.

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**Internet Broadband Router**

**Wireless Settings**

This page allows you to define ESSID, and Channel for the wireless connection. These parameters are used for the wireless stations to connect to the Access Point.

Mode: AP

Band: 2.4 GHz (B+G+N)

ESSID: default

Channel Number: 11

Apply Cancel

### 5.4.2 Advance Settings

You should not change the parameters in this screen unless you know what effect the changes will have on WNRT-625. Please click “Apply” to save the settings when configuration finished.

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**Internet Broadband Router**

These settings are only for more technically advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the changes will have on your Broadband router.

Fragment Threshold: 2346 (256-2346)

RTS Threshold: 2347 (0-2347)

Beacon Interval: 100 (20- 1024 ms)

DTIM Period: 3 (1-10)

Data Rate: Auto

N Data Rate: Auto

Channel Width: ☒ Auto 20/40 MHz ☐ 20 MHz

Preamble Type: ☒ Short Preamble ☐ Long Preamble

Broadcast ESSID: ☒ Enable ☐ Disable

CTS Protect: ☐ Auto ☐ Always ☒ None

Tx Power: 100 %

WMM: ☒ Enable ☐ Disable

Apply Cancel

Parameters	Description
Fragment Threshold	“Fragment Threshold” specifies the maximum size of packet during the fragmentation of data to be transmitted. If you set this value too low, it will result in bad performance.
RTS Threshold	When the packet size is smaller the RTS threshold, the access point will not use the RTS/CTS mechanism to send this packet.
Beacon Interval	The interval of time that this access point broadcast a beacon. Beacon is used to synchronize the wireless network.
DTIM Period	Set the DTIM period of wireless radio. Do not modify default value if you don't know what it is, default value is 3.
Data Rate	The Data Rate is the rate of data transmission for 802.11b/g clients. The WNRT-625 will use the highest possible selected transmission rate to transmit the data packets.
N Data Rate	Set the wireless data transfer rate to a certain value for 802.11n clients. Since most of wireless devices will negotiate with each other and pick a proper data transfer rate automatically. Please refer to “N Data Rate Table” as below.
Channel Width	Set channel width of wireless radio. Do not modify default value if you don't know what it is, default setting is ‘Auto 20/40 MHz’.
Preamble Type	Preamble type defines the length of CRC block in the frames during the wireless communication. “ <b>Short Preamble</b> ” is suitable for high traffic wireless network. “ <b>Long Preamble</b> ” can provide more reliable communication.
Broadcast ESSID	If you enable “Broadcast ESSID”, every wireless station located within the coverage of this access point can discover this WNRT-625 easily. If you are building a public wireless network, enabling this feature is recommended. In private network, disabling “Broadcast ESSID” can provide better security.
CTS Protection	It is recommended to enable the protection mechanism. This mechanism can decrease the rate of data collision between 802.11b and 802.11g wireless stations. When the protection mode is enabled, the throughput of the AP will be a little lower due to many of frame traffic should be transmitted.
TX Power	Users can adjust the WNRT-625 output power to 100%, 90%, 75% 50% 25% and 10%. In default, WNRT-625 will work with 100% output power.
WMM	The short of Wi-Fi Multi-Media, it will enhance the data transfer performance of multimedia contents when they're being transferred over wireless network.

After configuration complete, please click “Apply” button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press “Continue” for configure other settings or “Apply” to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

## N Data Rate Table

MCS Index	HT20	HT40
	Data rate (Mbps) @ 400ns GI	
0	7.2	15.0
1	14.4	30.0
2	21.7	45.0
3	28.9	60.0
4	43.3	90.0
5	57.8	120.0
6	65.0	135.0
7	72.2	150.0
8	14.444	30.0
9	28.889	60.0
10	43.333	90.0
11	57.778	120.0
12	86.667	180.0
13	115.556	240.0
14	130.000	270.0
15	144.444	300.0

### 5.4.3 Security

WNRT-625 provides complete wireless LAN security functions, includes WEP, 802.1x, 802.1x with WEP, WPA-PSK and WPA RADIUS. With these security functions, you can prevent your wireless LAN from illegal access. Please make sure your wireless stations use the same security function. In default, the security function is “Disable”.

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**Internet Broadband Router**

**Security Settings**

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

Encryption : Disable

☐ Enable 802.1x Authentication

Apply Cancel

- System
- WAN
- LAN
- **Wireless**
  - ▶ Basic Settings
  - ▶ Advance Settings
  - ▶ **Security Settings**
  - ▶ Access Control
  - ▶ WPS
- QoS
- NAT
- Firewall

#### 5.4.3.1 WEP

When you select 64-bit or 128-bit WEP key, you have to enter WEP keys to encrypt data. You can generate the key by yourself. You can enter four WEP keys and select one of them as default key.

Then the access point will just allow the clients that with the same encryption keys connected. You can use WEP encryption in “AP mode”, “Station-Ad Hoc mode”, “Station-Infrastructure mode” and “AP Bridge-WDS mode”. If you would like to enable 802.1x Authentication also, please check the “Enable 802.1x Authentication” and refer to section 5.4.3.2 for the detail of 802.1x settings.

The screenshot shows the 'Security Settings' page of a Planet Internet Broadband Router. The left sidebar contains navigation links: System, WAN, LAN, Wireless (selected), QoS, NAT, and Firewall. Under 'Wireless', there are sub-links: Basic Settings, Advance Settings, Security Settings (selected), Access Control, and WPS. The main content area is titled 'Security Settings' and includes a description: 'This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.' Below this, there are several configuration fields: 'Encryption' (set to WEP), 'Key Length' (64-bit), 'Key Format' (Hex (10 characters)), 'Default Tx Key' (Key 1), and four 'Encryption Key' fields (Key 1 to Key 4), each with a masked input box. At the bottom, there is a checkbox labeled 'Enable 802.1x Authentication' and two buttons: 'Apply' and 'Cancel'.

Parameter	Description
Encryption	Please select “WEP” in this option.
Key Length	You can select the 64 or 128-bit key to encrypt transmitted data. Larger WEP key length will provide higher level of security, but the throughput will be lower.
Key Format	You may select to select ASCII Characters (alphanumeric format) or Hexadecimal Digits (in the “A-F”, “a-f” and “0-9” range) to be the WEP Key.
Default Tx Key	Select one of the four keys to encrypt your data. Only the key you select it in the “Default key” will take effect.
Encryption Key 1 - Key 4	The WEP keys are used to encrypt data transmitted in the wireless network. Fill the text box by following the rules below. 64-bit WEP: input 10-digit Hex values (in the “A-F”, “a-f” and “0-9” range) or 5-digit ASCII character as the encryption keys. 128-bit WEP: input 26-digit Hex values (in the “A-F”, “a-f” and “0-9” range) or 10-digit ASCII characters as the encryption keys.
Enable 802.1x Authentication	Check this box and another sub-menu will appear if you want to enable 802.1X authentications with WEP encryption. You may refer to section 5.4.3.2 to enter the correct setting of the fields.

After configuration complete, please click “Apply” button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press “Continue” for configure other settings or “Apply” to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

### 5.4.3.2 802.1X

IEEE 802.1x is an authentication protocol. Every user must use a valid account to login to this Access Point before accessing the wireless LAN. The authentication is processed by a RADIUS server. This mode only authenticates user by IEEE 802.1x, but it does not encryption the data during communication. It is suggested to enable 802.1x and WEP at the same time.

☒ **Enable 802.1x Authentication**

**RADIUS Server IP address :**

**RADIUS Server Port :**

1812

**RADIUS Server Password :**

Parameter	Description
RADIUS Server IP address	Please input the IP address of radius server here.
RADIUS Server Port	Please input the port number of radius server here. Leave the default port setting or assign a new port number for this option.
RADIUS Server Password	Please input the port number of radius password here.

After configuration complete, please click “Apply” button to save the configuration. Then you will see a screen to prompt you the settings are save successfully. You may press “Continue” for configure other settings or “Apply” to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

### 5.4.3.3 WPA - PSK

Wi-Fi Protected Access (WPA) is an advanced security standard. You can use a pre-shared key to authenticate wireless stations and encrypt data during communication. It uses TKIP or CCMP (AES) to change the encryption key frequently. So the encryption key is not easy to be broken by hackers. This can improve security very much.




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Internet Broadband Router

- System
- WAN
- LAN
- Wireless
  - Basic Settings
  - Advance Settings
  - Security Settings
  - Access Control
  - WPS
- QoS
- NAT
- Firewall

### Security Settings

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

Encryption :	WPA pre-shared key
WPA Unicast Cipher Suite :	<input checked="" type="radio"/> WPA(TKIP) <input type="radio"/> WPA2(AES) <input type="radio"/> WPA2 Mixed
Pre-shared Key Format :	Passphrase
Pre-shared Key :	

Apply
Cancel

Parameter		Description
Encryption		Please select "WPA pre-shared key" in this option.
WPA Unicast Cipher Suite	WPA (TKIP)	TKIP can change the encryption key frequently to enhance the wireless LAN security.
	WPA2 (AES)	This use CCMP protocol to change encryption key frequently. AES can provide high-level encryption to enhance the wireless LAN security.
	WPA2 Mixed	This will use TKIP or AES based on the other communication peer automatically.
Pre-shared Key Format		You may select to select Passphrase (alphanumeric format) or Hexadecimal Digits (in the "A-F", "a-f" and "0-9" range) to be the Pre-shared Key.
Pre-shared Key		<p>The Pre-shared key is used to authenticate and encrypt data transmitted in the wireless network. Fill the text box by following the rules below.</p> <p>Hex: input 64-digit Hex values (in the "A-F", "a-f" and "0-9" range) or at least 8 character pass phrase as the pre-shared keys.</p>

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press "Continue" for configure other settings or "Apply" to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

#### 5.4.3.4 WPA - RADIUS

You can use a RADIUS server to authenticate wireless stations and provide the session key to encrypt data during communication. It uses TKIP or CCMP (AES) to change the encryption key frequently.

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**Internet Broadband Router**

- **System**
- **WAN**
- **LAN**
- **Wireless**
  - ▶ Basic Settings
  - ▶ Advance Settings
  - ▶ Security Settings
  - ▶ Access Control
  - ▶ WPS
- **QoS**
- **NAT**
- **Firewall**

### Security Settings

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

Encryption :
WPA RADIUS ▾

WPA Unicast Cipher Suite :

☒ WPA(TKIP)
 ☐ WPA2(AES)
 ☐ WPA2 Mixed

RADIUS Server IP address :

RADIUS Server Port :

RADIUS Server Password :

Parameter		Description
Encryption		Please select "WPA RADIUS" in this option.
WPA Unicast Cipher Suite	WPA (TKIP)	TKIP can change the encryption key frequently to enhance the wireless LAN security.
	WPA2 (AES)	This use CCMP protocol to change encryption key frequently. AES can provide high-level encryption to enhance the wireless LAN security.
	WPA2 Mixed	This will use TKIP or AES based on the other communication peer automatically.
RADIUS Server IP Address		Enter RADIUS Serer IP address.
RADIUS Server Port		Leave the default port setting or assign a new port number for this option.
RADIUS Server Password		Please enter the password that is assigned in RADIUS Server.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press "Continue" for configure other settings or "Apply" to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

## 5.4.4 Access Control

WNRT-625 provides MAC Address Filtering, which prevents the unauthorized users from accessing your wireless network.

The screenshot shows the Planet Internet Broadband Router's web interface. The top navigation bar includes links for Home, General Setup, Status, and Tool. The left sidebar contains a menu with System, WAN, LAN, Wireless (selected), QoS, NAT, and Firewall. The main content area is titled 'MAC Address Filtering' and includes a description: 'For security reason, the Access Point features MAC Address Filtering that only allows authorized MAC Addresses associating to the Access Point.' Below this is a section for the 'MAC Address Filtering Table' with a note that it allows up to 20 entries. The table has columns for NO., MAC address, Comment, and Select. Below the table are buttons for 'Delete Selected', 'Delete All', and 'Reset'. There is a checkbox for 'Enable Wireless Access Control'. At the bottom, there is a 'New' section with input fields for 'MAC address' and 'Comment', and 'Add' and 'Clear' buttons. Finally, there are 'Apply' and 'Cancel' buttons at the bottom right.

Parameters	Description
Enable Wireless Access Control	Enable or disable the MAC Address Filtering function.
Add MAC Address to the control table	In the bottom “New” area, fill in the “MAC Address” and “Comment” of the wireless station and then click “Add”. Then this wireless station will be added into the “MAC Address Filtering Table” above.
Remove MAC address from the table	If you want to remove some MAC address from the “Current Access Control List”, select the MAC addresses you want to remove in the list and then click “Delete Selected”.
Delete All	If you want remove all MAC addresses from the list, just click this button.
Reset	Click “Reset” will clear your current selections.

After configuration complete, please click “Apply” button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press “Continue” for configure other settings or “Apply” to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

## 5.4.5 WPS

Wi-Fi Protected Setup (WPS) is the simplest way to build connection between wireless network clients and this wireless router. You don't have to select encryption mode and input a long encryption pass phrase every time when you need to setup a wireless client, you only have to press a button on wireless client and router, and the WPS will do the rest for you.

This wireless router supports two types of WPS: Push-Button Configuration (PBC), and PIN code. If you want to use PBC, you have to push a specific button on the wireless client to start WPS mode, and switch this wireless router to WPS mode too. You can push RET/WPS button of this wireless router, or click 'Start PBC' button in the web configuration interface to do this. If you want to use PIN code, you can see the setup as below.

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**Internet Broadband Router**

**WPS(Wi-Fi Protected Setup) Settings**

This page allows you to change the setting for WPS(Wi-Fi Protected Setup). WPS can help your wireless client automatically connect to the Access Point.

☒ Enable WPS

**Wi-Fi Protected Setup Information**

WPS Status:	Configured
Self PinCode:	44898243
SSID	1111
Authentication Mode	WEP
Passphrase Key	*****

**Device Configure**

Config Mode:	Registrar
Configure via Push Button:	Start PBC
Configure via Client PinCode:	<input type="text"/> Start PIN

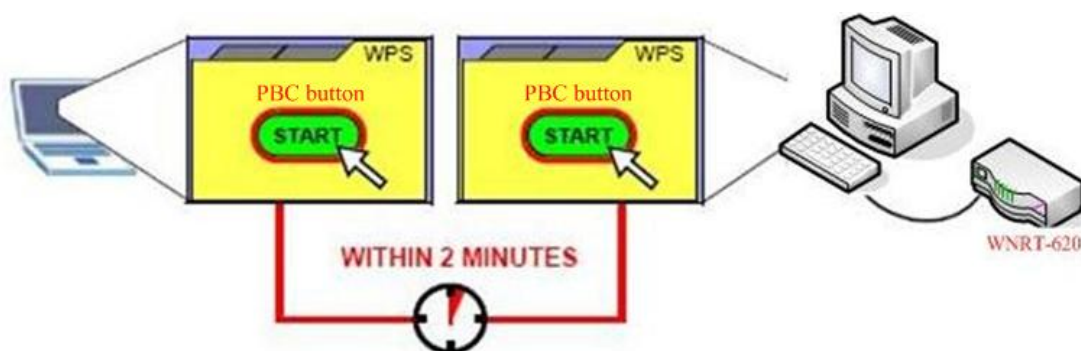
Parameters	Description
Enable WPS	Check this box to enable WPS function, uncheck it to disable WPS.
<b>Wi-Fi Protected Setup Information</b>	WPS-related system information will be displayed here.
WPS Status	If the wireless security (encryption) function of this wireless router is properly set, you'll see 'Configured' message here. If wireless security function has not been set, you'll see 'unConfigured'.
Self PIN code	This is the WPS PIN code of this wireless router. This code is useful when WNRT-625 router sets as Enrollee, you need to fill this number into the web page of the other device.
SSID	The SSID of this wireless router will be displayed here.

Authentication Mode	The wireless security authentication mode of this wireless router will be displayed here.
Passphrase Key	Confirming your Identity Key Store Pass-phrase. It is allowed you to easily remember the key what you may want to remember is that if the passphrase is used,

<b>Device Configure</b>	
Config Mode:	"Registrar", "Enrollee", please see the setup step as below.
Configure via Push Button	Click 'Start PBC' to start Push-Button style WPS setup procedure. This wireless router will wait for WPS requests from wireless clients for 2 minutes. The 'WLAN' LED on the wireless router will be steady on when this wireless router is waiting for incoming WPS request.
Configure via PinCode	Please input the PIN code of the other device you wish to connect, and click 'Start PIN' button. The 'WLAN' led on the wireless router will be steady on when this wireless router is waiting for incoming WPS request.(please see the detail as below.)

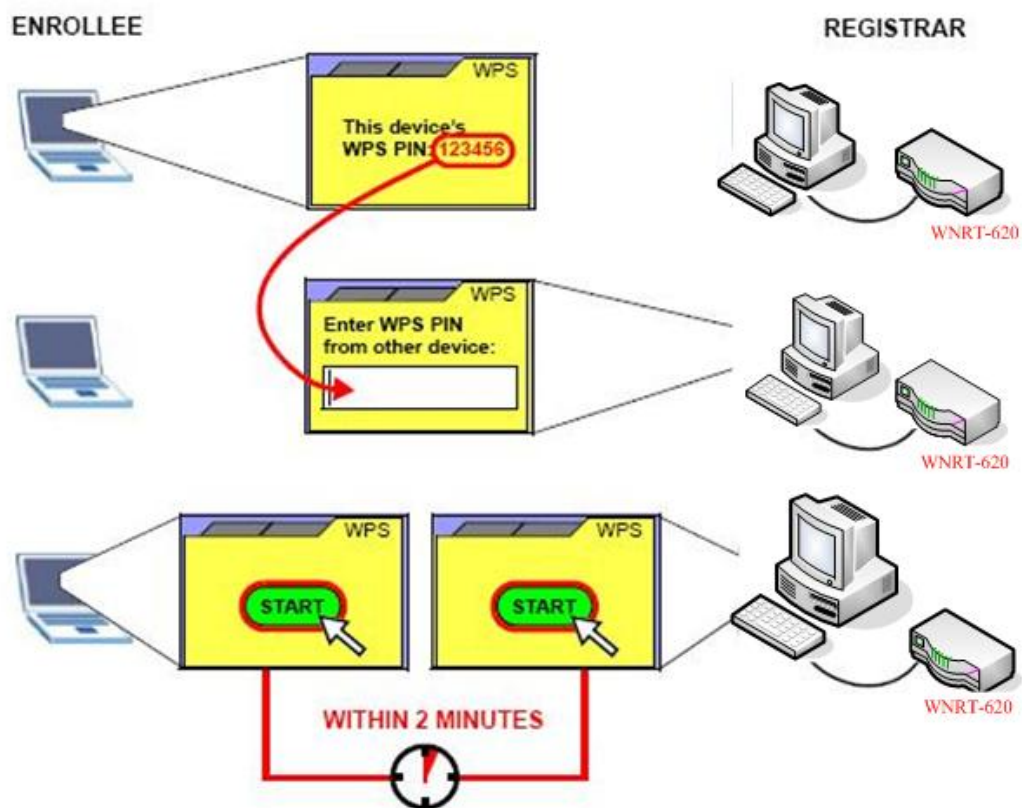
#### **PBC setup step:**

1. Ensure you have set the security setting on WNRT-625 (as Registrar).
2. Click the WPS button on WNRT-625 (or the "Start PBC" button on the web interface of WNRT-625) and the other device (supports PBC function) in 2 minutes.
3. WNRT-625 (Registrar) would send SSID and security key to the other device (Enrollee) through tunnel to connect.
4. If you see the wireless client in the list, WPS-PBC setting is successful.



**PIN (as Registrar) setup step:**

1. Select Config Mode: "Registrar" on WNRT-625.
2. Fill the PIN code of the other device (as Enrollee that support WPS-PIN setting) into the "configure via Client Pincode" of WNRT-625.
3. Click the PIN buttons on WNRT-625 and the other device in 2 minutes.
4. If you see the wireless client in the list, WPS-PIN setting is successful.

**PIN (as Enrollee) setup step:**

1. Select Config Mode: "Enrollee" on WNRT-625.
2. Fill the PIN code of WNRT-625 into the other device (as Registrar).
3. Click the PIN buttons on WNRT-625 and the other device in 2 minutes.
4. If you see the wireless client in the list, WPS-PIN setting is successful.

**\*\* As the figure as above, just change two roles.**

## 5.5 QoS

Quality of Service (QoS) refers to the capability of providing better service to selected network traffic. The primary goal of QoS is to provide priority including dedicated bandwidth, controlled jitter and latency

(required by some real-time and interactive traffic), and improved loss characteristics. When using this feature, it is important to make sure the rules are not conflicted with each other.

Parameters	Description
Enable QoS	Check this box to enable QoS function, unselect this box if you don't want to enforce QoS bandwidth limitations.
Total Download Bandwidth	You can set the limit of total download bandwidth in kbits. To disable download bandwidth limitation.
Total Upload Bandwidth	You can set the limit of total upload bandwidth in kbits. To disable upload bandwidth limitation.
Add	When you want to add a new QoS rule, press this button and refer to instructions below to add a new QoS rule.
Edit	When you want to edit the existing QoS rule, press this button and refer to instructions below to edit QoS rule.
Delete Selected	Select the QoS rule which you would like to delete, press this button to delete.
Delete All	When you want to delete all the QoS rules, you just need to press this button.
Move Up	Select a QoS rule and press this button to assign higher priority.
Remove Down	Select a QoS rule and press this button to assign lower priority.
Reset	Click "Reset" to clear your current selections.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press "Continue" for configure other settings or "Apply" to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

## Add/Edit QoS Rule

You can assign packet classification criteria by its source IP range, destination IP range, traffic type, protocol, and source port range and destination port range parameters. The parameters that you leave as blank will be ignored. The priority of this rule will be applied to packets that match classification criteria of this rule. You can limit bandwidth consumed by packets that match this rule or guarantee bandwidth required by packets that match this rule.

After press Add or Edit button in QoS screen, you will see the web screen below for user to setup their QoS rule.

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**Internet Broadband Router**

**QoS**

This page allows users to add/modify the QoS rule's settings.

Rule Name :

Bandwidth : Download   Kbps guarantee

Local IP Address :  -

Local Port Range :

Remote IP Address :  -

Remote Port Range :

Traffic Type : None

Protocol : TCP

Parameters	Description
Rule Name	Please give a name to the QoS Rule
Bandwidth	You can limit the maximum bandwidth consumed by this rule by selecting "Maximum". You also can reserve enough bandwidth for this rule by selecting "Guarantee". The unit of bandwidth is Kbps. When we download data from Internet, the unit of download screen shows is KBps. 1KBps is equal to 8Kbps. When you enter the bandwidth, please make sure the number you enter is correct. For example, if you want to limit users download speed to 50KBps from Internet, you will need to enter 400Kbps in the configuration.
Local IP Address	Please enter the IP address of the local PC. If there is only one IP address you want to assign, please fill IP address in these two spaces.
Local Port Range	Please input the range of local (source) port number that will be affected by this rule. If you want to apply this rule on port 80 to 90, please input '80-90'; if you want to apply this rule on a single port, just input the port number, like



	'80'; if you want to apply this rule none assigned port, <u>must input the port number '2-65535'.</u>
Remote IP Address	Please enter the IP address of the PC from remote site. If you don't assign, please let it blank.
Remote Port Range	Please input the range of local (source) port number that will be affected by this rule. If you want to apply this rule on port 80 to 90, please input '80-90'; if you want to apply this rule on a single port, just input the port number, like '80'; if you want to apply this rule none assigned port, <u>must input the port number '2-65535'.</u>
Traffic Type	Select the traffic type of the packets that this rule will apply to. We list some popular applications here to ease the configuration. You also can get the same result by using other parameters, for example source or destination port number, if you are familiar with the application protocol.
Protocol	Please select the protocol TCP or UDP in the list.

After configuration complete, please click "Save" to save the settings. Or you may press "Reset" to clear the settings to enter again.

## 5.6 NAT

Network Address Translation (NAT) allows multiple users at your local site to access the Internet via a single legal IP Address. NAT provides Firewall protection from hacker attacks and has the flexibility to allow you to map Private IP Addresses to Public IP Addresses for key services such as Websites and FTP. If NAT is disabled, all LAN side workstations must have legal IP addresses for Internet access. If the router is used for routing application, not for Internet access, the NAT function can be disabled.

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**Internet Broadband Router**

**NAT Settings**

Network Address Translation (NAT) allows multiple users at your local site to access the Internet through a single Public IP Address or multiple Public IP Addresses. NAT provides Firewall protection from hacker attacks and has the flexibility to allow you to map Private IP Addresses to Public IP Addresses for key services such as the Web or FTP.

Enable or disable NAT module function : ☒ Enable ☐ Disable

Apply

Parameters	Description
Enable or Disable NAT	You can select to enable or disable the NAT function. If you choose the

module function	disable, the NAT sub-function will just let you to use the function of Static Routing setting as well as the fast NAT mode also cannot be used even it is in the status of enable. After selected, please click “Apply” to make the settings effect.
-----------------	--

After configuration complete, please click “Apply” button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press “Continue” for configure other settings or “Apply” to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

## 5.6.1 Static Routing

After you disable NAT mode, you can enable Static Routing to turn off NAT function of this router and let this router forward packet by your routing policy.

Parameters	Description
Enable Static Routing	Check this box to enable Static Routing function, unselect this box if you don't want to turn off NAT function of this router.
Destination LAN IP	Type the Destination LAN IP address you use to access the Internet. Your ISP or network administrator provides you with this information.
Subnet Mask	Type the subnet mask for your network. If you do not type a value here, your ISP or network administrator provides you with this information.
Default Gateway	Type the gateway address of your network. Your ISP or network administrator provides you with this information.
Hop Count	Input which hop count you want to apply to this configuration.
Interface	Select the interface which you would like to use (LAN / WAN).

Add	Click to add a configuration to the Current Static Routing Table at the bottom of this page.
Reset	Click "Reset" will clear your current settings to allow you to enter again.
<b>Current Static Routing Table</b>	
Delete Selected	If you want to remove some Destination LAN IP address from the "Current Static Routing Table", select the Destination LAN IP addresses you want to remove in the table and then click "Delete Selected".
Delete All	If you want remove all Destination LAN IP addresses from the table, just click this button.
Reset	Click "Reset" will clear your current selections.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press "Continue" for configure other settings or "Apply" to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

## 5.6.2 Port Forwarding

The Port Forwarding allows you to re-direct a particular range of service port numbers (from the Internet/WAN Ports) to a particular LAN IP address. It helps you to host some servers behind the firewall.

**Port Forwarding**

Entries in this table allow you to automatically redirect common network services to a specific machine behind the NAT firewall. These settings are only necessary if you wish to host some sort of server like a web server or mail server on the private local network behind your Gateway's NAT firewall.

☐ Enable Port Forwarding

Private IP	Type	Port Range	Comment
<input type="text"/>	Both	<input type="text"/> - <input type="text"/>	<input type="text"/>

**Current Port Forwarding Table**

NO.	Private IP	Type	Port Range	Comment	Select
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>					


Parameters	Description
<b>Enable Port Forwarding</b>	Enable Port Forwarding.
<b>Private IP</b>	This is the private IP of the server in LAN. <b>Note:</b> You need to give your LAN PC clients a fixed/static IP address for Port

	Forwarding to work properly.
Type	This is the protocol type to be forwarded. You can choose to forward "TCP" or "UDP" packets only or select "both" to forward both "TCP" and "UDP" packets.
Port Range	The range of ports to be forward to the private IP.
Comment	The description of this setting.
Add	Fill in the "Private IP", "Type", "Port Range" and "Comment" of the setting to be added and then click "Add". Then this Port Forwarding setting will be added into the "Current Port Forwarding Table" below. If you find any typo before adding it and want to retype again, just click "Clear" and the fields will be cleared.
Reset	Click "Reset" will clear your current settings to allows you to enter again.
<b>Current Port Forwarding Table</b>	
Delete Selected	If you want to remove some MAC address from the "Current Access Control List", select the MAC addresses you want to remove in the table and then click "Delete Selected".
Delete All	If you want remove all MAC addresses from the table, just click this button.
Reset	Click "Reset" will clear your current selections.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press "Continue" for configure other settings or "Apply" to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

### 5.6.3 Virtual Server

Use the Virtual Server function when you need to have different servers in your LAN to handle many services and Internet applications (e.g. Email, FTP, Web server etc.) to the Internet. Computers use numbers called port numbers to recognize a particular service/Internet application type. The Virtual Server allows you to re-direct a particular service port number (from the WAN Port) to a particular LAN private IP address as its service port number.


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  - Port Forwarding
  - Virtual Server
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  - UPnP Setting
  - ALG Settings
- Firewall

### Virtual Server ?

You can configure the Broadband router as a Virtual Server so that remote users accessing services such as the Web or FTP at your local site via Public IP Addresses can be automatically redirected to local servers configured with Private IP Addresses. In other words, depending on the requested service (TCP/UDP) port number, the Broadband router redirects the external service request to the appropriate internal server (located at one of your LAN's Private IP Address).

☐ Enable Virtual Server

Private IP	Private Port	Type	Public Port	Comment
<input type="text"/>	<input type="text"/>	Both	<input type="text"/>	<input type="text"/>

Current Virtual Server Table

NO.	Private IP	Private Port	Type	Public Port	Comment	Select
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>						

Parameters	Description
Enable Virtual Server	Enable Virtual Server.
Private IP	<p>This is the LAN client/host IP address that the Public Port number packet will be sent to.</p> <p><b>Note:</b> You need to give your LAN PC clients a fixed/static IP address for Virtual Server to work properly.</p>
Private Port	<p>This is the port number (of the above Private IP host) that the below Public Port number will be changed to when the packet enters your LAN (to the LAN Server/Client IP).</p>
Type	<p>Select the port number protocol type (<b>TCP</b>, <b>UDP</b> or <b>Both</b>). If you are unsure, then leave it to the default both protocols.</p>
Public Port	<p>Enter the service (service/Internet application) port number from the Internet that will be re-directed to the above Private IP address host in your LAN.</p> <p><b>Note:</b> Virtual Server function will have priority over the DMZ function if there is a conflict between the Virtual Server and the DMZ settings.</p>
Add	<p>Fill in the "Private IP", "Private Port", "Type", "Public Port" and "Comment" of the setting to be added and then click "Add". Then this Virtual Server setting will be added into the "Current Virtual Server Table" below. If you find any typo before adding it and want to retype again, just click "Clear" and the fields will be cleared.</p>
Reset	<p>Click "Reset" will clear your current settings to allows you to enter again.</p>
<b>Current Virtual Server Table</b>	
Delete Selected	<p>If you want to remove some items from the "Current Virtual Server Table",</p>

	select the MAC addresses you want to remove in the table and then click "Delete Selected".
Delete All	If you want remove all items of the table, just click this button.
Reset	Click "Reset" will clear your current selections.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press "Continue" for configure other settings or "Apply" to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

## 5.6.4 Special Applications

Some applications require multiple connections, such as Internet games, video conferencing, Internet telephony and others. In this section you can configure the router to support multiple connections for these types of applications.

The screenshot shows the 'Special Applications' configuration page on a Planet Internet Broadband Router. The page has a blue sidebar with navigation links: System, WAN, LAN, Wireless, QoS, NAT (selected), and Firewall. Under NAT, there are links for Port Forwarding, Virtual Server, Special Applications (highlighted), UPnP Setting, and ALG Settings. The main content area is titled 'Special Applications' and contains a description: 'Some applications require multiple connections, such as Internet gaming, video conferencing, Internet telephony and others. These applications cannot work when Network Address Translation (NAT) is enabled. If you need to run applications that require multiple connections, specify the port normally associated with an application in the "Trigger Port" field, select the protocol type as TCP or UDP, then enter the public ports associated with the trigger port to open them for inbound traffic. Note: The range of the Trigger Port is 1 to 65535.' Below the text is an 'Enable' checkbox. There is a table with columns: IP Address, TCP Port to Open, UDP Port to Open, and Comment. The IP Address field contains '0.0.0.0'. Below this table is a 'Popular Applications' section with a dropdown menu labeled 'Select Game' and an 'Add' button. At the bottom of the configuration area are 'Add' and 'Reset' buttons. Below the configuration area is a 'Current Trigger-Port Table' with columns: NO., IP Address, TCP Port to Open, UDP Port to Open, Comment, and Select. Below the table are buttons for 'Delete Selected', 'Delete All', and 'Reset'. At the bottom right are 'Apply' and 'Cancel' buttons.

Parameters	Description
Enable	Enable the Special Application function.
IP Address	Type IP Address for the Popular Application. The computer with this IP address acts as a host IP with unlimited Internet access.
TCP Port to Open	Enter the In-coming (Inbound) port for this type of application (e.g. 2300-2400, 47624).
UDP Port to Open	<b>Note:</b> Individual port numbers are separated by a comma (e.g. 47624, 5775, and 6541 etc.).
Comment	The description of this setting.
Popular Applications	This section lists the more popular applications that require multiple connections. Select an application from the Popular Applications selection. Once you have selected an application, click the "Add" button in right side of this setting. This will automatically copy the Port Trigger information required for this popular application into the input fields.
Add	Add the settings into the "Current Trigger Port Table".
Reset	Click "Reset" will clear your current settings to allow you to enter again.
Current Trigger Port Table	

Delete Selected	If you want to remove some items from the "Current Trigger Port Table", select the MAC addresses you want to remove in the table and then click "Delete Selected".
Delete All	If you want to remove all items from the table, just click this button.
Reset	Click "Reset" will clear your current selections.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press "Continue" for configure other settings or "Apply" to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

#### **Example: Special Applications**

If you need to run applications that require multiple connections, specify the port (outbound) normally associated with that application in the "Trigger Port" field. Then select the protocol type (TCP or UDP) and enter the public ports associated with the trigger port to open them up for inbound traffic.

#### **Example:**

No.	IP Address	TCP Port to Open	UDP Port to Open	Comment
1	28800	1100-3400, 24689	2300-2400, 47624	MSN Game Zone
2	6112	5413	6112	Battle.net

In the example above, when a user trigger's port 28800 (outbound) for MSN Game Zone then the router will allow incoming packets for ports 2300-2400 and 47624 to be directed to that user.


**Note:** Only one LAN client can use a particular special application at a time.

### **5.6.5 UPnP**

UPnP is more than just a simple extension of the Plug and Play peripheral model. It is designed to support zero-configuration, "invisible" networking, and automatic discovery for a breadth of device categories from a wide range of vendors.

With UPnP, a device can dynamically join a network, obtain an IP address, convey its capabilities, and learn about the presence and capabilities of other devices-all automatically; truly enabling zero configuration networks. Devices can subsequently communicate with each other directly; thereby further enabling peer to peer networking.





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Internet Broadband Router

- System
- WAN
- LAN
- Wireless
- QoS
- NAT
  - Port Forwarding
  - Virtual Server
  - Special applications
  - UPnP Setting
  - ALG Settings
- Firewall

### UPnP

UPnP is more than just a simple extension of the Plug and Play peripheral model. It is designed to support zero-configuration, "invisible" networking, and automatic discovery for a breadth of device categories from a wide range of vendors.

With UPnP, a device can dynamically join a network, obtain an IP address, convey its capabilities, and learn about the presence and capabilities of other devices-all automatically; truly enabling zero configuration networks. Devices can subsequently communicate with each other directly; thereby further enabling peer to peer networking.

UPnP Feature:
☐ Enable
☒ Disable

Parameters	Description
UPnP Feature	Enable or Disable UPnP function.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press "Continue" for configure other settings or "Apply" to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

## 5.6.6 ALG Settings

You can select applications that need “Application Layer Gateway” to support.

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**Application Layer Gateway**

Below are applications that need router's special support to make them work under the NAT. You can select applications that you are using.

Enable	Name	Comment
<input checked="" type="checkbox"/>	Amanda	Support for Amanda backup tool protocol.
<input checked="" type="checkbox"/>	Egg	Support for eggdrop bot networks.
<input checked="" type="checkbox"/>	FTP	Support for FTP.
<input checked="" type="checkbox"/>	H323	Support for H323/netmeeting.
<input checked="" type="checkbox"/>	IRC	Allows DCC to work though NAT and connection tracking.
<input checked="" type="checkbox"/>	MMS	Support for Microsoft Streaming Media Services protocol.
<input checked="" type="checkbox"/>	Quake3	Support for Quake III Arena connection tracking and nat.
<input checked="" type="checkbox"/>	Talk	Allows netfilter to track talk connections.
<input checked="" type="checkbox"/>	TFTP	Support for TFTP.
<input checked="" type="checkbox"/>	IPsec	Support for IPsec passthrough
<input type="checkbox"/>	Starcraft	Support for Starcraft/Battle.net game protocol.
<input type="checkbox"/>	MSN	Support for MSN file tranfer.

Apply Cancel

Parameters	Description
Enable	You can select to enable “Application Layer Gateway” of an application and then the router will let that application correctly pass though the NAT gateway.

After configuration complete, please click “Apply” button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press “Continue” for configure other settings or “Apply” to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

## 5.7 Firewall

WNRT-625 provides extensive firewall protection by restricting connection parameters, thus limiting the risk of hacker attack, and defending against a wide array of common Internet attacks. However, for applications that require unrestricted access to the Internet, you can configure a specific client/server in a Demilitarized Zone (DMZ).

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## Internet Broadband Router

- System
- WAN
- LAN
- Wireless
- QoS
- NAT
- Firewall**
  - Access Control
  - URL Blocking
  - DoS
  - DMZ

### Security Settings (Firewall)

The Broadband router provides extensive firewall protection by restricting connection parameters, thus limiting the risk of hacker attack, and defending against a wide array of common attacks. However, for applications that require unrestricted access to the Internet, you can configure a specific client/server as a Demilitarized Zone (DMZ).

Enable or disable Firewall module function ☒ Enable ☐ Disable

Parameters	Description
Enable/Disable	You can select to enable or disable the firewall function. After selected, please click "Apply" to make the settings effect.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully.

## 5.7.1 Access Control

This screen allows you to restrict users from accessing certain Internet applications/services (e.g. Internet websites, email, FTP etc.). Network administrator can define the traffic type permitted in your LAN and control which PC client can have access to these services.

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## Internet Broadband Router

- System
- WAN
- LAN
- Wireless
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- NAT
- Firewall**
  - Access Control**
  - URL Blocking
  - DoS
  - DMZ

### Access Control

Access Control allows users to define the traffic type permitted or not permitted in your LAN. You can control which PC client uses what services in which they can have access to these services. If both of MAC filtering and IP filtering are enabled simultaneously, the MAC filtering table will be checked first and then IP filtering table.

☐ Enable MAC Filtering ☒ Deny ☐ Allow

Client PC MAC address	Comment
<input type="text"/>	<input type="text"/>

#### MAC Filtering Table

NO.	Client PC MAC address	Comment	Select
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>			


☐ Enable IP Filtering Table (up to 20 computers) ☒ Deny ☐ Allow

NO.	Client PC Description	Client PC IP address	Client Service	Protocol	Port Range	Select
<input type="button" value="Add PC"/> <input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/>						

Parameters	Description
<b>Enable MAC Filtering</b>	<p>Check "Enable MAC Filtering" to enable MAC Filtering.</p> <p>If select "Deny", all PCs will be allowed to access Internet except for the PCs in the list below.</p> <p>If select "Allow", all PCs will be denied to access Internet except for the PCs in the list below.</p>
Add PC	Fill in "Client PC MAC Address" and "Comment" of the PC that is allowed to access the Internet, and then click "Add". If you find any typo before adding it and want to retype again, just click "Reset" and the fields will be cleared.
Remove PC	If you want to remove some PC from the "MAC Filtering Table", select the PC you want to remove in the table and then click "Delete Selected". If you want remove all PCs from the table, just click "Delete All" button. If you want to clear the selection and re-select again, just click "Reset".
<b>Enable IP Filtering Table</b>	<p>Check "Enable IP Filtering Table" to enable IP filter.</p> <p>If select "Deny", all PCs will be allowed to access Internet except for the PCs in the list below.</p> <p>If select "Allow", all PCs will be denied to access Internet except for the PCs in the list below.</p>
Add PC	You can click "Add PC" to add an access control rule for users by IP addresses.
Remove PC	If you want to remove some PCs from the "IP Filtering Table", select the PC you want to remove in the table and then click "Delete Selected".
Delete All	If you want to delete all PCs. Please click this button.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press "Continue" for configure other settings or "Apply" to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

## Add PC


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Internet Broadband Router

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  - DMZ

### Access Control Add PC

This page allows users to define service limitation of client PC, including IP address and service type.

Client PC Description :

Client PC IP address :

Service Name	Detail Description	Select
WWW	HTTP, TCP Port 80, 3128, 8000, 8080, 8081	<input type="checkbox"/>
E-mail Sending	SMTP, TCP Port 25	<input type="checkbox"/>
News Forums	NNTP, TCP Port 119	<input type="checkbox"/>
E-mail Receiving	POP3, TCP Port 110	<input type="checkbox"/>
Secure HTTP	HTTPS, TCP Port 443	<input type="checkbox"/>
File Transfer	FTP, TCP Port 21	<input type="checkbox"/>
MSN Messenger	TCP Port 1863	<input type="checkbox"/>
Telnet Service	TCP Port 23	<input type="checkbox"/>
AIM	AOL Instant Messenger, TCP Port 5190	<input type="checkbox"/>
NetMeeting	H.323, TCP Port 389,522,1503,1720,1731	<input type="checkbox"/>
DNS	UDP Port 53	<input type="checkbox"/>
SNMP	UDP Port 161, 162	<input type="checkbox"/>
VPN-PPTP	TCP Port 1723	<input type="checkbox"/>
VPN-L2TP	UDP Port 1701	<input type="checkbox"/>
TCP	All TCP Port	<input type="checkbox"/>
UDP	All UDP Port	<input type="checkbox"/>

User Define Service

Protocol:

Both

Port Range:

Add

Reset

Parameters	Description
Client PC Description	Please input any text to describe this IP address, up to 16 alphanumerical characters.
Client PC IP Addresses	<p>Please input the starting IP address in the left field, and input the end IP address in the right field to define a range of IP addresses, or just input the IP address in the left field to define a single IP address.</p> <p><b>Note:</b> You need to give your LAN PC clients a fixed/static IP address for the Access Control rule to work properly.</p>
Client PC Service	You can block the clients from accessing some Internet services by checking the services you want to block.
Protocol	This allows you to select <b>UDP</b> , <b>TCP</b> or <b>Both</b> protocol types.
Port Range	You can assign up to five port ranges. The router will block clients from accessing Internet services that use these ports.
Add	Click "Add" to save the settings.
Reset	Click "Reset" to clear all fields.

After configuration complete, please click “Apply” button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press “Continue” for configure other settings or “Apply” to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

## 5.7.2 URL Blocking

You can block users to access to some web sites by entering a full URL address or just keyword of the web site.

Parameters	Description
Enable URL Blocking	Enable/disable URL Blocking.
Add URL / Keyword	Fill in “URL / Keyword” and then click “Add”. You can enter the full URL address or the keyword of the web site you want to block. If you find any typo before adding it and want to retype again, just click "Reset" and the field will be cleared.
Remove URL / Keyword	If you want to remove some URL keyword from the "Current URL Blocking Table", select the URL keyword you want to remove in the table and then click "Delete Selected". If you want remove all URL keyword from the table, just click "Delete All" button. If you want to clear the selection and re-select again, just click “Reset”.

After configuration complete, please click “Apply” button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press “Continue” for configure other settings or “Apply” to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

### 5.7.3 DoS

WNRT-625's firewall can block common hacker attacks, including Denial of Service, Ping of Death, Port Scan and Sync Flood. If Internet attacks occur, the router can log the events.

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**Internet Broadband Router**

**Denial of Service** ?

The Broadband router's firewall can block common hacker attacks, including DoS, Discard Ping from WAN and Port Scan.

**Denial of Service Feature**

Ping of Death	<input type="checkbox"/>
Discard Ping From WAN	<input type="checkbox"/>
Port Scan	<input type="checkbox"/>
Sync Flood	<input type="checkbox"/>

Advance Settings

Apply Cancel

Parameters	Description
Ping of Death	Protections from Ping of Death attack.
Discard Ping From WAN	The router's WAN port will not respond to any Ping requests.
Port Scan	Protects the router from Port Scan.
Sync Flood	Protects the router from Sync Flood attack.
Advance Settings	If you want to configure the details of each setting above, click this button, and you will see the detail configure screen. Please make sure what the effect of the settings will affect before your adjustment.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press "Continue" for configure other settings or "Apply" to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

## DoS - Advanced Settings

When you click 'Advanced' button in DoS menu, the following message will be displayed on your web browser:

**Denial of Service Feature**

<input type="checkbox"/> Ping of Death	5 Packet(S) Per Second Burst 5
<input type="checkbox"/> Discard Ping From WAN	
<input type="checkbox"/> Port Scan	<input checked="" type="checkbox"/> NMAP FIN / URG / PSH <input checked="" type="checkbox"/> Xmas tree <input checked="" type="checkbox"/> Another Xmas tree <input checked="" type="checkbox"/> Null scan <input checked="" type="checkbox"/> SYN / RST <input checked="" type="checkbox"/> SYN / FIN <input checked="" type="checkbox"/> SYN (only unreachable port)
<input type="checkbox"/> Sync Flood	5 Packet(S) Per Second Burst 5

Parameters	Description
Ping of Death	Set the threshold of when this DoS prevention mechanism will be activated. Please check the box of Ping of Death, and input the frequency of threshold (how many packets per second, minute, or hour), you can also input the 'Burst' value, which means when this number of 'Ping of Death' packet is received in very short time, this DoS prevention mechanism will be activated.
Discard Ping From WAN	Check the box to activate this DoS prevention mechanism.
Port Scan	Many kind of port scan methods are listed here, please check one or more DoS attack methods you want to prevent.
Sync Flood	Like Ping of Death, you can set the threshold of when this DoS prevention mechanism will be activated.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press "Continue" for configure other settings or "Apply" to go back to "Denial of Service Feature" configuration setting.



## 5.7.4 DMZ

If you have a local client PC that cannot run an Internet application (e.g. Games) properly from behind the NAT firewall, you can open the client up to unrestricted two-way Internet access by defining a DMZ Host. The DMZ function allows you to re-direct all packets from your WAN port IP address to a particular IP address in your LAN. The difference between the virtual server and the DMZ function is that the virtual server re-directs a particular service/Internet application (e.g. FTP, websites) to a particular LAN client/server, whereas DMZ re-directs all packets (regardless of services) to one particular LAN client/server.

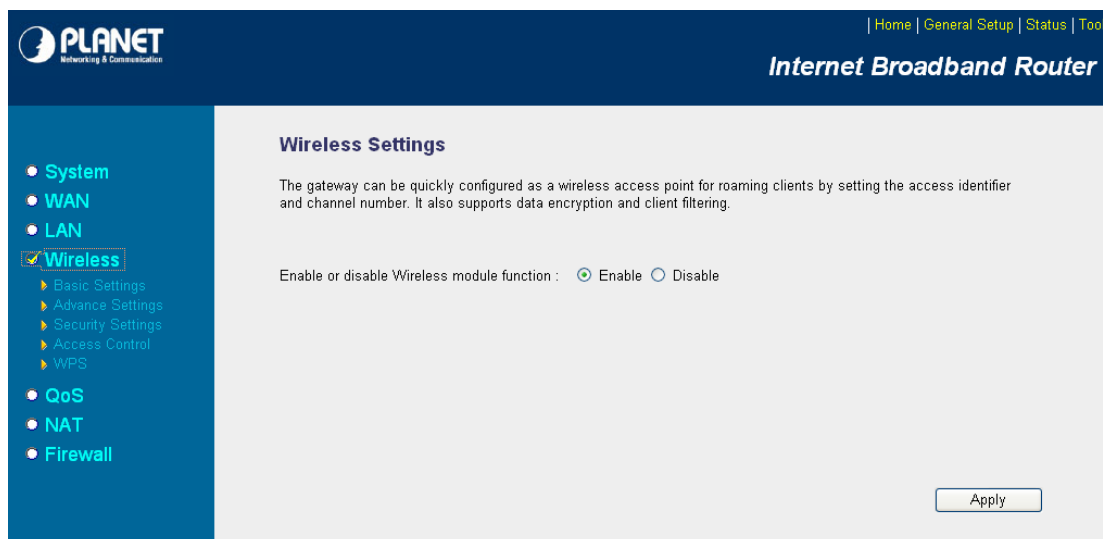
The screenshot shows the 'DMZ(Demilitarized Zone)' configuration page of a Planet Internet Broadband Router. The page has a blue header with the Planet logo and navigation links: Home, General Setup, Status, and Tool. A left sidebar lists various settings: System, WAN, LAN, Wireless, QoS, NAT, and Firewall (which is expanded to show Access Control, URL Blocking, DoS, and DMZ). The main content area is titled 'DMZ(Demilitarized Zone)' and includes a help icon. Below the title is an explanatory text: 'If you have a local client PC that cannot run an Internet application properly from behind the NAT firewall, then you can open the client up to unrestricted two-way Internet access by defining a Virtual DMZ Host.' The configuration section includes an 'Enable DMZ' checkbox, which is currently unchecked. Below this are two columns: 'Public IP address' and 'Client PC IP address'. Under 'Public IP address', there are radio buttons for 'Dynamic IP' (selected) and 'Static IP'. The 'Dynamic IP' option has a dropdown menu showing 'Session 1'. There are 'Add' and 'Reset' buttons below these options. The 'Client PC IP address' column has an empty text input field. At the bottom of the configuration section are 'Apply' and 'Cancel' buttons. Below the configuration section is a table titled 'Current DMZ Table' with columns: NO., Public IP address, Client PC IP address, and Select. Below the table are buttons for 'Delete Selected', 'Delete All', and 'Reset'.

Parameters	Description
Enable DMZ	Enable/disable DMZ. <b>Note:</b> If there is a conflict between the Virtual Server and the DMZ setting, the Virtual Server function will have priority over the DMZ function.
Public IP Address	The IP address of the WAN port or any other Public IP addresses given to you by your ISP.
Client PC IP Address	Input the IP address of a particular host in your LAN that will receive all the packets originally going to the WAN port/Public IP address above. <b>Note:</b> You need to give your LAN PC clients a fixed/static IP address for DMZ to work properly.

After configuration complete, please click “Apply” button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press “Continue” for configure other settings or “Apply” to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

# Chapter 6 Wireless Configuration

In this chapter, you can Enable/Disable wireless function and configure the WNRT-625 work in different operating mode. Please refer to below sections to know the details configuration of each operating mode.



## 6.1 AP Mode

This mode is set to WNRT-625 by default. It served as a transparent Media Access Control (MAC) bridge between wired and wireless network.

Parameter	Description
Mode	Shows the current operation mode. You may set WNRT-625 to other operating mode by select other operating mode.
Band	<b>2.4GHz (B):</b> It forces the WNRT-625 to operate in 802.11b only. <b>2.4GHz (G):</b> It forces the WNRT-625 to operate in 802.11g only. <b>2.4GHz (N):</b> It forces the WNRT-625 to operate in 802.11n only. <b>2.4GHz (B+G):</b> It allows the WNRT-625 to operate in 802.11b and 802.11g simultaneously. <b>2.4GHz (B+G+N):</b> It allows the WNRT-625 to operate in 802.11b, 802.11g, and 802.11n simultaneously.
ESSID	The ESSID (up to 32 printable ASCII characters) is the unique name identified in a WLAN. The ID prevents the unintentional merging of two co-located WLANs. Please make sure that the ESSID of all stations in the same WLAN network are the

	same. The default value is “default”.										
Channel Number	Select the appropriate channel from the list provided to correspond with your network settings. Channels differ from country to country.										
Associated Client	<p>You may press “<b>Show Active Clients</b>” button to check the connected client information. After the button pressed, you will see the dialog box as below.</p> <div><p><b>Active Wireless Client Table</b></p><p>This table shows the MAC address, transmission, reception packet counters for each associated wireless client.</p><table><tr><th>AID</th><th>MAC address</th><th>802.11 PhyMode</th><th>Power Save</th><th>BandWidth</th></tr><tr><td>---</td><td>---</td><td>---</td><td>---</td><td>---</td></tr></table><div><div>Refresh</div><div>Close</div></div></div> <p>You may press “<b>Refresh</b>” to get the new client table or “<b>Close</b>” to close this dialog box.</p>	AID	MAC address	802.11 PhyMode	Power Save	BandWidth	---	---	---	---	---
AID	MAC address	802.11 PhyMode	Power Save	BandWidth							
---	---	---	---	---							

After configuration complete, please click “Apply” button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press “Continue” for configure other settings or “Apply” to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

## 6.2 Station-Infrastructure Mode

WRT-625 serves as a wireless station (infrastructure). Connected to a PC or a small LAN (no more than 5 PCs), it allows the PC or small LAN able to access the wireless network via Access Point.

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Internet Broadband Router

- System
- WAN
- LAN
- **Wireless**
  - ▶ Basic Settings
  - ▶ Advanced Settings
  - ▶ Security Settings
  - ▶ Access Control
  - ▶ WPS
- QoS
- NAT
- Firewall

### Wireless Settings

This page allows you to define ESSID, and Channel for the wireless connection. These parameters are used for the wireless stations to connect to the Access Point.

Mode:
Station-Infrastructure

Band:
2.4 GHz (B+G+N)

ESSID:
default

Site Survey:
Select Site Survey

WLAN MAC:

000000000000
Clone MAC

Parameter	Description
-----------	-------------

Mode	Shows the current operation mode. You may set WRT-625 to other operating mode by select other operating mode.																																				
Band	<p><b>2.4GHz (B):</b> It forces the WNRT-625 to operate in 802.11b only.</p> <p><b>2.4GHz (G):</b> It forces the WNRT-625 to operate in 802.11g only.</p> <p><b>2.4GHz (N):</b> It forces the WNRT-625 to operate in 802.11n only.</p> <p><b>2.4GHz (B+G):</b> It allows the WNRT-625 to operate in 802.11b and 802.11g simultaneously.</p> <p><b>2.4GHz (B+G+N):</b> It allows the WNRT-625 to operate in 802.11b, 802.11g, and 802.11n simultaneously.</p>																																				
ESSID	Please make sure the ESSID of the wireless network that you will connect and enter the correct ESSID in this field. The default value is “default”.																																				
Site Survey	<p>You also can press “<b>Select Site Survey</b>” button to choose wireless network that exists at the moment you will connect.</p> <div><p><b>Wireless Site Survey</b></p><p>This page provides tool to scan the wireless network. If any Access Point or IBSS is found, you could choose to connect it manually when client mode is enabled.</p><table><tr><th>Select</th><th>Channel</th><th>SSID</th><th>BSSID</th><th>Encrypt</th><th>Authentication</th><th>Signal</th><th>Mode</th><th>Type</th></tr><tr><td><input type="radio"/></td><td>1</td><td>PLANET2000</td><td>00:0B:6B:09:8F:6A</td><td>WEP</td><td>OPEN</td><td>96</td><td>11b/g</td><td>In</td></tr><tr><td><input type="radio"/></td><td>10</td><td>default</td><td>00:30:4F:3A:D4:30</td><td>NONE</td><td>OPEN</td><td>100</td><td>11b/g</td><td>In</td></tr><tr><td><input type="radio"/></td><td>11</td><td>test2t2r</td><td>00:0E:2E:44:82:98</td><td>WEP</td><td>OPEN</td><td>100</td><td>11b/g/n</td><td>In</td></tr></table><div><div>Refresh</div><div>Done</div></div></div> <p>You may press “<b>Refresh</b>” to get the new Access Point and select one of them to click “<b>Done</b>” to connect.</p>	Select	Channel	SSID	BSSID	Encrypt	Authentication	Signal	Mode	Type	<input type="radio"/>	1	PLANET2000	00:0B:6B:09:8F:6A	WEP	OPEN	96	11b/g	In	<input type="radio"/>	10	default	00:30:4F:3A:D4:30	NONE	OPEN	100	11b/g	In	<input type="radio"/>	11	test2t2r	00:0E:2E:44:82:98	WEP	OPEN	100	11b/g/n	In
Select	Channel	SSID	BSSID	Encrypt	Authentication	Signal	Mode	Type																													
<input type="radio"/>	1	PLANET2000	00:0B:6B:09:8F:6A	WEP	OPEN	96	11b/g	In																													
<input type="radio"/>	10	default	00:30:4F:3A:D4:30	NONE	OPEN	100	11b/g	In																													
<input type="radio"/>	11	test2t2r	00:0E:2E:44:82:98	WEP	OPEN	100	11b/g/n	In																													
WLAN MAC	<p><b>Keep default setting:</b> WRT-625 will use it’s own MAC address to access the wireless LAN.</p> <p><b>Press “MAC Clone” button:</b> It will use PC’s MAC address to access the wireless LAN.</p>																																				

After configuration complete, please click “Apply” button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press “Continue” for configure other settings or “Apply” to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

## 6.3 AP Bridge Point to Point Mode

This function allows WNRT-625 to bridge 2 wired Ethernet networks wirelessly.

The screenshot displays the 'Wireless Settings' page of a Planet Internet Broadband Router. The page title is 'Internet Broadband Router'. The left sidebar contains a navigation menu with the following items: System, WAN, LAN, Wireless (selected), QoS, NAT, and Firewall. The main content area is titled 'Wireless Settings' and includes a description: 'This page allows you to define ESSID, and Channel for the wireless connection. These parameters are used for the wireless stations to connect to the Access Point.' Below the description are several configuration fields: 'Mode' (set to 'AP Bridge-Point to Point'), 'Band' (set to '2.4 GHz (B+G+N)'), 'Channel Number' (set to '11'), 'MAC address 1' (set to '000000000000'), and a 'Set Security' button. At the bottom right, there are 'Apply' and 'Cancel' buttons.

Parameter	Description
Mode	Shows the current operation mode. You may set WNRT-625 to other operating mode by select other operating mode.
Band	<b>2.4GHz (B):</b> It forces the WNRT-625 to operate in 802.11b only. <b>2.4GHz (G):</b> It forces the WNRT-625 to operate in 802.11g only. <b>2.4GHz (N):</b> It forces the WNRT-625 to operate in 802.11n only. <b>2.4GHz (B+G):</b> It allows the WNRT-625 to operate in 802.11b and 802.11g simultaneously. <b>2.4GHz (B+G+N):</b> It allows the WNRT-625 to operate in 802.11b, 802.11g, and 802.11n simultaneously.
Channel Number	Select the appropriate channel from the list provided to correspond with your network settings. Channels differ from country to country.
MAC Address 1	Please enter the MAC Address of another WNRT-625 that this one will connect.
Set Security	IF you want to enable security to protect your wireless connection. Please press "Set Security" button and refer to section 6.7 "Security setting for bridge mode" to configure the detail settings.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press "Continue" for configure other settings or "Apply" to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

## 6.4 AP Bridge Point to Multi-point Mode

This function allows WNRT-625 to bridge more than 2 wired Ethernet networks together by wireless connection.

The screenshot shows the 'Wireless Settings' page of a Planet Internet Broadband Router. The left sidebar contains navigation links: System, WAN, LAN, Wireless (selected), QoS, NAT, and Firewall. The main content area is titled 'Wireless Settings' and includes a description: 'This page allows you to define ESSID, and Channel for the wireless connection. These parameters are used for the wireless stations to connect to the Access Point.' The configuration fields are as follows:

- Mode:** A dropdown menu set to 'AP Bridge-Point to Multi-Point'.
- Band:** A dropdown menu set to '2.4 GHz (B+G+N)'.
- Channel Number:** A dropdown menu set to '11'.
- MAC address 1:** A text field containing '000000000000'.
- MAC address 2:** A text field containing '000000000000'.
- MAC address 3:** A text field containing '000000000000'.
- MAC address 4:** A text field containing '000000000000'.
- Set Security:** A button labeled 'Set Security'.

At the bottom right, there are 'Apply' and 'Cancel' buttons.

Parameter	Description
Mode	Shows the current operation mode. You may set WNRT-625 to other operating mode by select other operating mode.
Band	<p><b>2.4GHz (B):</b> It forces the WNRT-625 to operate in 802.11b only.</p> <p><b>2.4GHz (G):</b> It forces the WNRT-625 to operate in 802.11g only.</p> <p><b>2.4GHz (N):</b> It forces the WNRT-625 to operate in 802.11n only.</p> <p><b>2.4GHz (B+G):</b> It allows the WNRT-625 to operate in 802.11b and 802.11g simultaneously.</p> <p><b>2.4GHz (B+G+N):</b> It allows the WNRT-625 to operate in 802.11b, 802.11g, and 802.11n simultaneously.</p>
Channel Number	Select the appropriate channel from the list provided to correspond with your network settings. Channels differ from country to country.
MAC Address 1-4	If you want to bridge multiple WNRT-625 in this mode, you have to enter the MAC addresses of other WNRT-625 into the fields.
Set Security	IF you want to enable security to protect your wireless connection. Please press "Set Security" button and refer to section 6.7 "Security setting for bridge mode" to configure the detail settings.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press "Continue" for configure other settings or "Apply" to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.

## 6.5 AP Bridge-WDS Mode

If you want WNRT-625 to bridge to other WNRT-625 and provide access for other wireless clients at the same time, you have to set the WNRT-625 to “AP Bridge - WDS”. Simply speaking, “AP Bridge - WDS” function is the combination of “AP mode” and “AP Bridge-Point to Multi-Point mode”.

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Home | General Setup | Status | Tool

**Internet Broadband Router**

**Wireless Settings**

This page allows you to define ESSID, and Channel for the wireless connection. These parameters are used for the wireless stations to connect to the Access Point.

Mode: **AP Bridge-WDS**

Band: **2.4 GHz (B+G+N)**

ESSID: **default**

Channel Number: **11**

Associated Clients: **Show Active Clients**

MAC address 1 : **000000000000**

MAC address 2 : **000000000000**

MAC address 3 : **000000000000**

MAC address 4 : **000000000000**

Set Security: **Set Security**

**Apply** **Cancel**


Parameter	Description
Mode	Shows the current operation mode. You may set WNRT-625 to other operating mode by select other operating mode.
Band	<p><b>2.4GHz (B):</b> It forces the WNRT-625 to operate in 802.11b only.</p> <p><b>2.4GHz (G):</b> It forces the WNRT-625 to operate in 802.11g only.</p> <p><b>2.4GHz (N):</b> It forces the WNRT-625 to operate in 802.11n only.</p> <p><b>2.4GHz (B+G):</b> It allows the WNRT-625 to operate in 802.11b and 802.11g simultaneously.</p> <p><b>2.4GHz (B+G+N):</b> It allows the WNRT-625 to operate in 802.11b, 802.11g, and 802.11n simultaneously.</p>
ESSID	The ESSID (up to 32 printable ASCII characters) is the unique name identified in a WLAN. The ID prevents the unintentional merging of two co-located WLANs. Please make sure that the ESSID of all stations in the same WLAN network are the same. The default value is “default”.
Channel Number	Select the appropriate channel from the list provided to correspond with your network settings. Channels differ from country to country.
Associated Client	You may press “ <b>Show Active Clients</b> ” button to check the connected client

	<p>information. After the button pressed, you will see the dialog box as below.</p> <div><p><b>Active Wireless Client Table</b></p><p>This table shows the MAC address, transmission, reception packet counters for each associated wireless client.</p><table><tr><th>AID</th><th>MAC address</th><th>802.11 PhyMode</th><th>Power Save</th><th>BandWidth</th></tr><tr><td>---</td><td>---</td><td>---</td><td>---</td><td>---</td></tr></table><div><button>Refresh</button><button>Close</button></div></div> <p>You may press “<b>Refresh</b>” to get the new client table or “<b>Close</b>” to close this dialog box.</p>	AID	MAC address	802.11 PhyMode	Power Save	BandWidth	---	---	---	---	---
AID	MAC address	802.11 PhyMode	Power Save	BandWidth							
---	---	---	---	---							
MAC Address 1-4	<p>If you want to bridge more than two wired Ethernet networks together with wireless connection, you have to enter the MAC addresses of other WNRT-625s that will join the bridging work into the fields.</p>										
Set Security	<p>IF you want to enable security to protect your wireless connection. Please press “Set Security” button and refer to section 6.7 “Security setting for bridge mode” to configure the detail settings.</p> <p><b>**When you set security, you must enable the same security setting of two AP router.</b></p>										

After configuration complete, please click “Apply” button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press “Continue” for configure other settings or “Apply” to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more information about this screen.



## 6.6 Universal Repeater Mode


Home | General Setup | Status | Tool

Internet Broadband Router

- System
- WAN
- LAN
- Wireless
  - Basic Settings
  - Advanced Settings
  - Security Settings
  - Access Control
  - WPS
- QoS
- NAT
- Firewall

### Wireless Settings

This page allows you to define ESSID, and Channel for the wireless connection. These parameters are used for the wireless stations to connect to the Access Point.

Mode:

Universal Repeater

Band:

2.4 GHz (B+G+N)

ESSID:

default

Channel Number:

11

Associated Clients:

Show Active Clients

Root AP SSID:

Site Survey

Select Site Survey

Apply

Cancel

Parameter	Description
Mode	Shows the current operation mode. You may set WNRT-625 to other operating mode by select other operating mode.
Band	<p><b>2.4GHz (B):</b> It forces the WNRT-625 to operate in 802.11b only.</p> <p><b>2.4GHz (G):</b> It forces the WNRT-625 to operate in 802.11g only.</p> <p><b>2.4GHz (N):</b> It forces the WNRT-625 to operate in 802.11n only.</p> <p><b>2.4GHz (B+G):</b> It allows the WNRT-625 to operate in 802.11b and 802.11g simultaneously.</p> <p><b>2.4GHz (B+G+N):</b> It allows the WNRT-625 to operate in 802.11b, 802.11g, and 802.11n simultaneously.</p>
ESSID	The ESSID (up to 32 printable ASCII characters) is the unique name identified in a WLAN. The ID prevents the unintentional merging of two co-located WLANs. Please make sure that the ESSID of all stations in the same WLAN network are the same. The default value is "default".
Channel Number	<p>Select the appropriate channel from the list provided to correspond with your network settings. Channels differ from country to country.</p> <p>Channel 1-11 (North America)</p>
Associated Client	You may press " <b>Show Active Clients</b> " button to check the connected client information. After the button pressed, you will see the dialog box as below.

Active Wireless Client Table

This table shows the MAC address, transmission, reception packet counters for each associated wireless client.

AID	MAC address	802.11 PhyMode	Power Save	BandWidth
---	---	---	---	---

Refresh

Close

You may press “**Refresh**” to get the new client table or “**Close**” to close this dialog box.

Root AP SSID

In “Universal Repeater mode”, this device can act as a station to connect to a Root AP. You should enter the SSID of the Root AP here.

Site Survey

Wireless Site Survey

This page provides tool to scan the wireless network. If any Access Point or IBSS is found, you could choose to connect it manually when client mode is enabled.

Select	Channel	SSID	BSSID	Encrypt	Authentication	Signal	Mode	Type
<input type="radio"/>	1	PLANET2000	00:0B:6B:09:8F:6A	WEP	OPEN	96	11b/g	In
<input type="radio"/>	10	default	00:30:4F:3A:D4:30	NONE	OPEN	100	11b/g	In
<input type="radio"/>	11	test2t2r	00:0E:2E:44:82:98	WEP	OPEN	100	11b/g/n	In

Refresh

Done

You may press “**Refresh**” to get the new Access Point and select one of them to click “**Done**” to connect.

After configuration complete, please click “Apply” button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press “Continue” for configure other settings or “Apply” to restart WNRT-625 with new configuration. Please refer to section 4.2.7 for more

## 6.7 Security Setting of Bridge Mode

In “AP Bridge-Point to Point mode”, “AP Bridge-Point to Multi-Point mode” and “AP Bridge-WDS mode”, you can click “Set Security” to add encryption for the communication between the bridged access points. This can protect your wireless network.

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Internet Broadband Router

### Wireless Settings

This page allows you to define ESSID, and Channel for the wireless connection. These parameters are used for the wireless stations to connect to the Access Point.

Mode:	AP Bridge-WDS
Band:	2.4 GHz (B+G+N)
ESSID:	default
Channel Number:	11
MAC address 1 :	000000000000
MAC address 2 :	000000000000
MAC address 3 :	000000000000
MAC address 4 :	000000000000
Set Security:	Set Security

Apply Cancel

### 6.7.1 WEP

When you select 64-bit or 128-bit WEP key, you have to enter WEP keys to encrypt data. You can generate the key by yourself. You can enter four WEP keys and select one of them as default key. Then the access point will just allow the clients that with the same encryption keys connected.

### WDS Security Settings

This page allows you setup the WDS security. The value depends on your AP Security settings.

Encryption :	WEP
Key Length :	64-bit
Key Format :	Hex (10 characters)
Default Tx Key :	Key 1
Encryption Key 1 :	XXXXXXXXXX
Encryption Key 2 :	XXXXXXXXXX
Encryption Key 3 :	XXXXXXXXXX
Encryption Key 4 :	XXXXXXXXXX

Apply Reset

Parameter	Description
Key Length	You can select the 64 or 128-bit key to encrypt transmitted data. Larger WEP key length will provide higher level of security, but the throughput will be lower.
Key Format	You may select to select ASCII Characters (alphanumeric format) or Hexadecimal Digits (in the "A-F", "a-f" and "0-9" range) to be the WEP Key.
Default Tx Key	Select one of the four keys to encrypt your data. Only the key you select it in the "Default key" will take effect.
Encryption Key 1 - Key 4	The WEP keys are used to encrypt data transmitted in the wireless network. Fill the text box by following the rules below. 64-bit WEP: input 10-digit Hex values (in the "A-F", "a-f" and "0-9" range) or 5-digit ASCII character as the encryption keys. 128-bit WEP: input 26-digit Hex values (in the "A-F", "a-f" and "0-9" range) or 10-digit ASCII characters as the encryption keys.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press "Continue" for configure other settings or "Apply" to restart WNRT-625 with new configuration.

### 6.7.2 WPA-PSK

Wi-Fi Protected Access (WPA) is an advanced security standard. You can use a pre-shared key to authenticate wireless stations and encrypt data during communication. It uses TKIP or CCMP (AES) to change the encryption key frequently. So the encryption key is not easy to be broken by hackers. This can improve security very much.

### WDS Security Settings

This page allows you setup the WDS security. The value depends on your AP Security settings.

Encryption :

WPA pre-shared key

WPA Unicast Cipher Suite :

☒ WPA(TKIP)
☐ WPA2(AES)

Pre-shared Key Format :

Passphrase

Pre-shared Key :

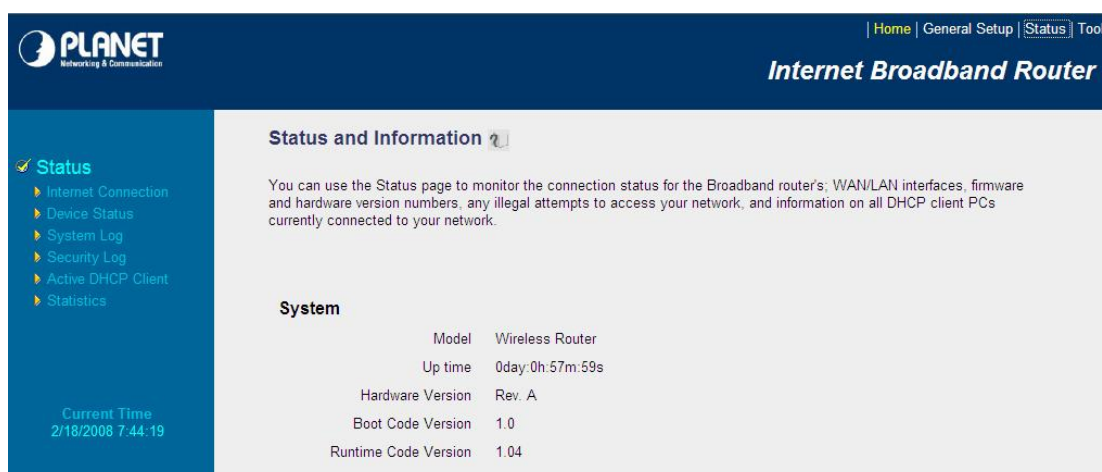
Apply

Reset

Parameter		Description
Encryption		Please select "WPA pre-shared key" in this option.
WPA    Unicast Cipher Suite	WPA (TKIP)	TKIP can change the encryption key frequently to enhance the wireless LAN security.
	WPA2 (AES)	This use CCMP protocol to change encryption key frequently. AES can provide high-level encryption to enhance the wireless LAN security.
Pre-shared Key Format		You may select to select Passphrase (alphanumeric format) or Hexadecimal Digits (in the "A-F", "a-f" and "0-9" range) to be the Pre-shared Key.
Pre-shared Key		<p>The Pre-shared key is used to authenticate and encrypt data transmitted in the wireless network. Fill the text box by following the rules below.</p> <p>Hex: input 64-digit Hex values (in the "A-F", "a-f" and "0-9" range) or at least 8 character pass phrase as the pre-shared keys.</p>

# Chapter 7 Status

The Status screen allows you to monitor the current status of your router. You can use the Status page to monitor the connection status of WAN and LAN interfaces, the current firmware and hardware version numbers, any illegal attempts to access your network, and information on all DHCP client PCs currently connected to your network.



**PLANET**  
Networking & Communication

Home | General Setup | **Status** | Tool

**Internet Broadband Router**

**Status**

- Internet Connection
- Device Status
- System Log
- Security Log
- Active DHCP Client
- Statistics

Current Time  
2/18/2008 7:44:19

**Status and Information**

You can use the Status page to monitor the connection status for the Broadband router's WAN/LAN interfaces, firmware and hardware version numbers, any illegal attempts to access your network, and information on all DHCP client PCs currently connected to your network.

**System**

Model	Wireless Router
Up time	0day:0h:57m:59s
Hardware Version	Rev. A
Boot Code Version	1.0
Runtime Code Version	1.04

## 7.1 Internet Connection

View WNRT-625's current Internet connection status and other related information.



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Home | General Setup | **Status** | Tool

**Internet Broadband Router**

**Internet Connection**

View the current internet connection status and related information.

Obtain IP Protocol :	Fixed IP connect
IP Address :	210.66.155.72
Subnet Mask :	255.255.255.224
Default Gateway :	210.66.155.94
MAC Address :	00:30:4F:44:82:61
Primary DNS :	168.95.1.1
Secondary DNS :	168.95.192.1

## 7.2 Device Status

View WNRT-625's current configuration settings. The Device Status displays the configuration settings of WLAN and LAN.

[Home](#) | [General Setup](#) | [Status](#) | [Tool](#)

Internet Broadband Router

✓ Status

- Internet Connection
- Device Status
- System Log
- Security Log
- Active DHCP Client
- Statistics

Current Time

1/1/2000 2:03:19

Device Status ?

View the current setting status of this device.

Wireless Configuration	
Mode	AP Bridge-WDS
ESSID	default
Channel Number	11
Security	WEP

LAN Configuration	
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
DHCP Server	Enable
MAC Address	00:30:4F:28:6D:10

## 7.3 System Log

This screen will show you the real-time information of WNRT-625.

[Home](#) | [General Setup](#) | [Status](#) | [Tool](#)

Internet Broadband Router

✓ Status

- Internet Connection
- Device Status
- System Log
- Security Log
- Active DHCP Client
- Statistics

Current Time

1/1/2000 2:04:58

System Log ?

View the system operation information. You can see the system start up time, connection process...etc. here.

```

Jan 1 00:00:00 (none) syslog.info syslogd started: BusyBox v1.00-pre2 (200
Jan 1 00:00:10 (none) local0.info udhcpd[426]: udhcpd (v0.9.9-pre) started
Jan 1 00:00:10 (none) local0.err udhcpd[426]: max_leases value (254) not s
Jan 1 00:00:15 (none) user.info udhcpd: udhcp client (v0.9.9-pre) started
Jan 1 01:01:05 (none) local0.info udhcpd[428]: sending OFFER of 192.168.0.
Jan 1 01:01:05 (none) local0.info udhcpd[428]: sending ACK to 192.168.0.10
Jan 1 01:53:57 (none) user.info udhcpd: Received SIGTERM
Jan 1 01:54:07 (none) local0.info udhcpd[613]: udhcpd (v0.9.9-pre) started
Jan 1 01:54:07 (none) local0.err udhcpd[613]: max_leases value (254) not s

```

Save

Clear

Refresh

Parameters	Description
System Log	<p>This page shows the current system log of WNRT-625. It displays the working information about WNRT-625.</p> <p>About the bottoms of the page, the system log can be saved to a local file by press “Save” button. If there is too much message in this screen, please press “Clear” button to clear the system log. It can be refreshed to get the most updated situation by press “Refresh” button. When the system is powered down, the system log will be cleared.</p>

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## 7.4 Security Log

View any attempts that have been made to illegally gain access to your network.

The screenshot shows the 'Security Log' page of a Planet Internet Broadband Router. The page has a dark blue header with the Planet logo and navigation links: Home, General Setup, Status, and Tool. The main content area is light gray and contains the title 'Security Log' with a help icon. Below the title is a description: 'View any attempts that have been made to illegally gain access to your network.' A text box displays two log entries: '[2000-01-01 00:00:15]: start Dynamic IP' and '[2000-01-01 01:54:12]: start Dynamic IP'. At the bottom of the page are three buttons: 'Save', 'Clear', and 'Refresh'. On the left side, there is a blue sidebar with a 'Status' menu and sub-items: Internet Connection, Device Status, System Log, Security Log (highlighted), Active DHCP Client, and Statistics. The current time is shown as '1/1/2000 2:07:35'.

Parameters	Description
Security Log	<p>This page shows the current security log of WNRT-625. It displays any illegal attempts to access your network.</p> <p>About the bottoms of the page, the security log can be saved to a local file by press "Save" button. If there is too much message in this screen, please press "Clear" button to clear the system log. It can be refreshed to get the most updated situation by press "Refresh" button. When the system is powered down, the security log will be cleared.</p>

## 7.5 Active DHCP Client

View your client's information that is currently linked to WNRT-625's DHCP server.

The screenshot shows the 'Active DHCP Client' page of a Planet Internet Broadband Router. The page has a dark blue header with the Planet logo and navigation links: Home, General Setup, Status, and Tool. The main content area is light gray and contains the title 'Active DHCP Client' with a help icon. Below the title is a description: 'This table shows the assigned IP address, MAC address and time expired for each DHCP leased client.' A table displays the following data:

IP Address	MAC Address	Time Expired(s)
None	----	----

At the bottom of the page is a 'Refresh' button. On the left side, there is a blue sidebar with a 'Status' menu and sub-items: Internet Connection, Device Status, System Log, Security Log, Active DHCP Client (highlighted), and Statistics.

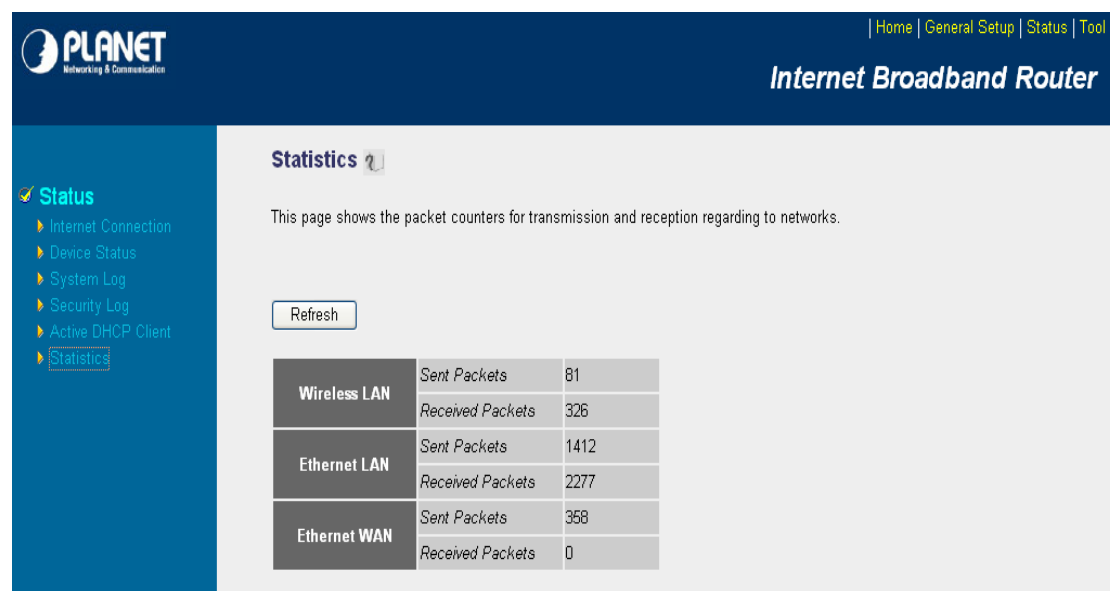
Parameters	Description
DHCP Client Table	<p>This page shows all the DHCP clients currently connected to your network.</p> <p>The "Active DHCP Client Table" displays the IP address and the MAC</p>



	address and Time Expired of each Client. Use the Refresh button to get the most updated situation.
--	--

## 7.6 Statistics

View the statistics of packets sent and received on WLAN, LAN and WAN.



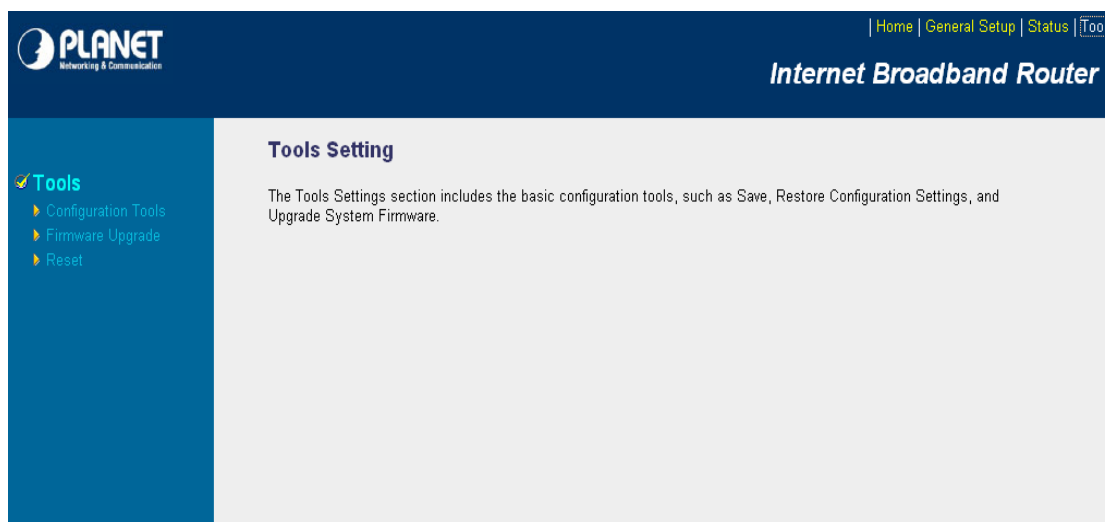
The screenshot shows the PLANET Internet Broadband Router web interface. The top navigation bar includes links for Home, General Setup, Status, and Tool. The left sidebar lists various status options, with 'Statistics' highlighted. The main content area is titled 'Statistics' and includes a 'Refresh' button. Below the button is a table displaying packet statistics for three network types: Wireless LAN, Ethernet LAN, and Ethernet WAN. Each network type has two rows: 'Sent Packets' and 'Received Packets'.

Network Type	Category	Count
Wireless LAN	Sent Packets	81
	Received Packets	326
Ethernet LAN	Sent Packets	1412
	Received Packets	2277
Ethernet WAN	Sent Packets	358
	Received Packets	0

Parameters	Description
Statistics	Shows the counters of packets sent and received on WLAN, LAN and WAN.

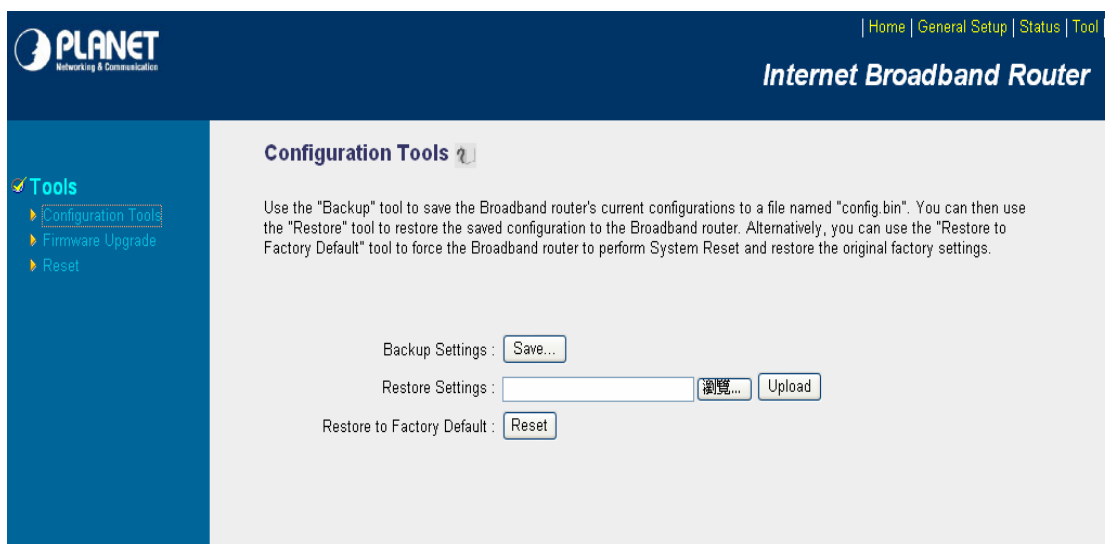
# Chapter 8 Tools

This page includes the basic configuration tools, such as Configuration Tools (save or restore configuration settings), Firmware Upgrade (upgrade system firmware) and Reset.



## 8.1 Configuration Tools

The Configuration Tools screen allows you to “Backup” the router’s current configuration setting. Saving the configuration settings provides an added protection and convenience when problems occur and you have to reset to factory default. With the saved file, you can re-load the saved configuration into the router through the “Restore” function. If extreme problems occur you can use the “Restore to Factory Defaults” selection, this will set all configurations to its original default settings.



Parameters	Description
Configuration Tools	Use the " <b>Backup</b> " tool to save WNRT-625 current configuration to a file

	named "config.cfg" in your PC. You can then use the " <b>Restore</b> " tool to restore the saved configuration to WNRT-625. The " <b>Restore to Factory Defaults</b> " tool can force WNRT-625 to perform a power reset for restore it to original factory settings.
--	--

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are saving successfully. You may press "Continue" for configure other settings or "Apply" to restart WNRT-625 with new configuration.

## 8.2 Firmware Upgrade

This page prompt you it allows you to upgrade the router's firmware. Please press "Next" to continue.

**Planet** Networking & Communication

Home | General Setup | Status | Tool

**Internet Broadband Router**

**Tools**

- Configuration Tools
- Firmware Upgrade**
- Reset

**Firmware Upgrade** ?

This tool allows you to upgrade the Broadband router's system firmware. Enter the path and name of the upgrade file and then click the APPLY button below. You will be prompted to confirm the upgrade.

The system will automatically reboot the router after you finished the firmware upgrade process. If you don't complete the firmware upgrade process in the "next" step, you have to reboot the router.

Next

**Planet** Networking & Communication

Home | General Setup | Status | Tool

**Internet Broadband Router**

**Tools**

- Configuration Tools
- Firmware Upgrade**
- Reset

**Firmware Upgrade** ?

This tool allows you to upgrade the Broadband router's system firmware. Enter the path and name of the upgrade file and then click the APPLY button below. You will be prompted to confirm the upgrade.

瀏覽...

Apply Cancel

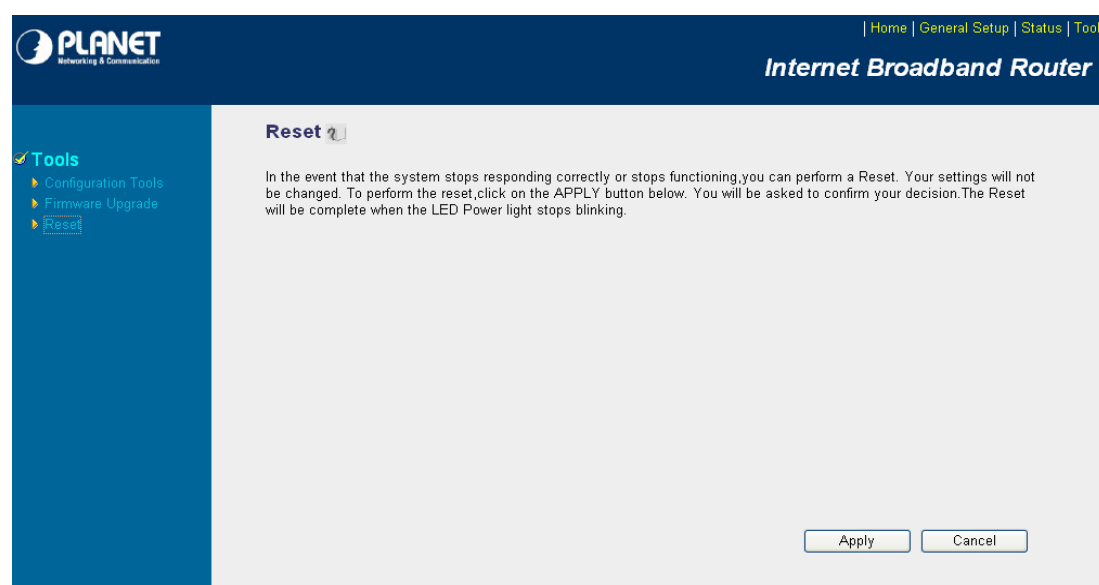
Parameters	Description
Firmware Upgrade	This tool allows you to upgrade WNRT-625's system firmware. To upgrade

	the firmware of your Broadband router, you need to download the firmware file to your local hard disk, and enter that file name and path in the appropriate field on this page. You can also press the “Browse...” button to find out the firmware file on your PC.
--	---

Once you've selected the new firmware file, click “Apply” bottom to start the upgrade process. (You may have to wait a few minutes for the upgrade to complete and WNRT-625 restart). After the WNRT-625 restart, you can start using the router.

## 8.3 Reset

You can reset the router's system should any problem exist. The reset function is essentially Re-boot your router.



Parameters	Description
Reset	In the event that the system stops responding correctly or in some way stops functioning, you can perform a reset. <b>Your settings will not be changed.</b> To perform the reset, click on the “Apply” button. You will be asked to confirm your decision. The reset will be complete when the power light stops blinking. Once the reset process is complete you may start using the router again.

After configuration complete, please click “Apply” button, please wait for a while for the WNRT-625 restart.