

802.11n Wireless Broadband Router

WNRT-620

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.
- 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-620 v2 Rev: 2.0 (Feb. 2008)

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Chapter 1 Introduction

Thank you for purchasing WNRT-620. This manual guides you on how to install and properly use the WNRT-620 in order to take full advantage of its features.

1.1 Package Contents

Make sure that you have the following items:

- One WNRT-620
- 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 300Mbps 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 (Point to Point, Point to Multi-Point, WDS)/Repeater modes supported
- 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

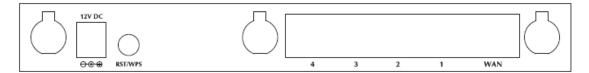
1.3 Specification

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	3 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 Consumption	TX power consumption: 603 mA RX power consumption: 372 mA
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-620.

2.1 Hardware Connection



- **1. Locate an optimum location for the WNRT-620.** The best place for your WNRT-620 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-620.** 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-620 LAN port.** Connect one of the LAN ports on WNRT-620 to your LAN switch/hub or a computer with a RJ-45 cable.
- 4. Connect RJ-45 cable to WNRT-620 WAN port. Connect xDSL/Cable Modem to the WAN port on WNRT-620. 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-620 will start to operate.

Note:

- ONLY use the power adapter supplied with the WNRT-620. Otherwise, the product may be damaged.
- If you want to reset WNRT-620 to default settings, press and hold the RST(reset) button over 30 seconds and release. And then wait for WNRT-620 restart.

RST / WPS Button	This button has two functions:
	To Clear All Data and restore the factory default values:
	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.
	(warning: your original configurations will be replaced with the factory default
	settings)
	To make Wi-Fi Protected Setup (WPS) simple and easier:
	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.

2.2 LED Indicators

A DI ONICT	802.11n Wireless Router			WAN	32 <u>-</u>	- LA	N	- 23	
Hotwarking & Communication	802.11n Wireless Router			0	0	0	0	0	100M
WINDE COO		0	0	0	0	0	0	0	LNK/ACT
WNRT-620		PWR	WLAN		1	2	3	4	

LED		Color	STATE	MEANING
			On	Device power on
PWR		Green	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
	100M	Green	On	WAN port is connected at 100Mbps
			Off	WAN port is disconnected at 100Mbps
WAN	LNK/ACT	Green	On	Link is established
			Blinking	Packets are transmitting or receiving
	100M	Green	On	LAN is connected to 100Mbps device
			Off	LAN is disconnected to 100Mbps device
LAN	LNK/ACT	Green	On	Link is established
			Blinking	Packets are transmitting or receiving
			Off	LAN port is not connected

Chapter 3 Web Login

Web configuration provides a user-friendly graphical user interface (web pages) to manage your WNRT-620. A WNRT-620 with an assigned IP address will 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-620 in the address field (default IP address is http://192.168.0.1).

3. A User Name and Password dialog box will appear. Please enter your User Name and Password here. Default User Name and Password are both "admin". Click OK.

Default: admin/admin	
)) 10 Default: admin/admin	
Default: admin/admin	A A
Deraut, auninyaunin	
User name:	~
Password:	
Remember my password	
ОК	Cancel

4. Then you will see the WNRT-620 HOME screen as below.

O PI ONET	HOME General Setup Status Tools
Networking & Communication	Internet Broadband Router
Quick Setup	Quick Setup Wizard The Quick Setup Wizard provides only the necessary configurations to connect your Broadband router to your Internet Service Provider (ISP) through an external cable or a DSL modem.
General Setup	General Setup The Broadband router supports advanced functions like Virtual Server, Access Control, Hacker Attack Detection and DMZ. We highly recommend you keep the default settings.
Status Info	<u>Status Information</u> The Broadband router's status information provides the following information about your Broadband router: Hardware/Firmware version, Serial Number, and its current operating status.
Tools	Tools Broadband router Tools - Tools include Configuration tools, Firmware upgrade and Reset. Configuration tools allow you to Backup, Restore, or Restore to Factory Default setting for your Broadband router. The Firmware upgrade tool allows you to upgrade your Broadband router's firmware. The RESET tool allows you to reset your Broadband router.

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				
Quick Setup	to connect to your Internet Service Provider (ISP).				
	This section contains configurations for the Broadband router's advance				
Concrol Sofun	functions such as: Port Forwarding, Virtual Server, Access Control, Hacker				
General Setup	Attack Prevention, DMZ, Special applications and other functions to meet your				
	LAN requirements. You can also configure the wireless detail settings here.				
Statua Infa	This option provides you the system information, Internet Connection, Device				
Status Info	Status, Security Log and DHCP client Log information.				
Tools	This option contains Configuration tools, Firmware Upgrade and Reset				
10015	functions.				

Chapter 4 Quick Setup

This section describes the basic configuration of the WNRT-620 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.

PLANET		Home General Setup Status Tool
Networking & Communication		Internet Broadband Router
	Time Zone ၃၂	
 1.Time Zone 2.Broadband Type 3.IP Address Info 	Set the time zone of the Broadb and firewall settings.	and router. This information is used for log entries
	Set Time Zone :	(GMT)Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London 🕑
	Time Server Address :	192.43.244.18
	Daylight Savings :	Enable Function Times From January 1 To January 1 Y
		Next

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

	Home General Setup Status Tool
Networking & Communication	Internet Broadband Router
 1.Time Zone 2.Broadband Type 3.IP Address Info 	Broadband Type Specify the WAN connection type required by your Internet Service Provider. Specify a Cable modern, Fixed-IP xDSL, PPPoE xDSL or PPTP xDSL connection. O Cable Modem A connection through a cable modern 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. O 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. O 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. O PPTP xDSL If you connect to the Internet using an xDSL Modern 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. O L2TP xDSL Layer Two Tunneling Protocol is a common connection method used in xDSL connections. O L2TP xDSL Layer Two Tunneling Protocol is a common connection method used in xDSL connections. O 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 Teistra 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.
	This is not widely used. You need to know the PPTP Server address as
L2TP XDSL	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.

3.IP Address Info 2.Broadband Type 3.IP Address Info Host Name : MAC address : 0000000000 Clone Mac address Back OK		Home General Setup Status Tool Internet Broadband Router
	🧭 2.Broadband Type	Cable Modem Host Name :

Parameters	Description
Host Name	Type in the host name provided by your ISP if any; otherwise, just leave it blank.
	To connect to Internet, your ISP will require a MAC address from your PC. Type in this
MAC Address	MAC address in this section or use the "Clone MAC Address" button to replace the
MAC AUDIESS	WAN port MAC address with the your PC's. To find out the PC's MAC address, see
	Appendix A. (also see Glossary for an explanation on MAC address).

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-620 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 you're ISP has given you a specified IP address. Your ISP should provide all the information required in this section.

PLANET	Home General Setup Status Tool
Networking & Communication	Internet Broadband Router
🧭 1.Time Zone ダ 2.Broadband Type 🍯 3.IP Address Info	3.IP Address Info 1 Fixed-IP xDSL Enter the IP Address, Subnet Mask, Gateway IP Address and DNS IP Address provided to you by your ISP in the appropriate fields.
	IP address assigned by your Service Provider : 172.1.1.1
	Subnet Mask : 255.255.0.0
	DNS address :
	Service Provider Gateway Address : 172.1.1.254
	Back OK

Parameters	Description
IP address assigned by your	The ID address that you're ISD should provide you
Service Provider	The IP address that you're 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 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.

4.2.3 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.

() PI ANET		Home General Setup Status Tool
Networking & Communication		Internet Broadband Router
	3.IP Address Info 🧃	
 𝒞 1.Time Zone 𝒞 2.Broadband Type 𝒞 3.IP Address Info 		d required by your ISP in the appropriate fields. If your ISP has provided you with a ce Name field, otherwise, leave it blank.
	User Name :	
	Password :	
	Service Name :	
	MTU : 139	92 (512<=MTU Value<=1492)
	Connection Type : Co	ontinuous Connect Disconnect
	Idle Time Out:10	(1-1000minutes)
		Back OK

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.
	This is an optional parameter. You can specify the maximum size of transmission
МТИ	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.
	If you select "Continuous", 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.
	If you select "Connect On Demand", 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
Connection Tune	timeout. The router will close the WAN connection if the time period that no one is
Connection Type	using the Internet exceeds the "Idle Time".
	If you select "Manual", 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: Continuous .
	You can specify an idle time threshold (minutes) for the WAN port. This means if no
Idle Time	packets have been sent (no one using the Internet) during this specified period, the
	router will automatically disconnect the connection from your ISP.
	Note: This "idle timeout" function may not work due to abnormal activities of some

1	
	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.

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.

O DI ONET	Home General Setup Status Tool
Networking & Communication	Internet Broadband Router
	3.IP Address Info 🥡
🥑 1.Time Zone ダ 2.Broadband Type 🍼 3.IP Address Info	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 : 00000000000 Clone Mac address
	O 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 \alue<=1492)
	BEZEQ-ISRAEL : Enable (for BEZEQ network in ISRAEL use only)
	Connection Type : Continuous Connect Disconnect
	Idle Time Out : 10 (1-1000minutes)
	Back OK

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.
	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"
MAC Address	button to replace the WAN port MAC address with the MAC address of that PC.
	To find out the PC's MAC address, see Appendix A. (also see Glossary for an

	explanation on MAC address).
Lico the following ID	
Use the following IP address	Select it if the ISP provides you a static IP to connect to the PPTP server.
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.
	This is an optional parameter. You can specify the maximum size of
MTU	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.
	If you select " Continuous ", 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.
	If you select "Connect On Demand", the router will auto-connect to the ISP
	when a client in LAN wants to use the Internet and keep connected until the
Connection Turns	WAN idle timeout. The router will close the WAN connection if the time period
Connection Type	that no one is using the Internet exceeds the "Idle Time".
	If you select "Manual", 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: Continuous.
	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.
	Note: This "idle timeout" function may not work due to abnormal activities of
Idle Time	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.

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.

O PI ANET	Home General Setup Status Tool
Networking & Communication	Internet Broadband Router
	3.IP Address Info 🧃
 1.Time Zone 2.Broadband Type 3.IP Address Info 	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: 00000000000 Clone Mac address
	O Use the following IP address
	IP address : 0.0.0.0
	Subnet Mask : 0.0.0
	Default Gateway : 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)
	Back

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;
nost name	otherwise, just leave it blank.
	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"
MAC Address	button to replace the WAN port MAC address with the MAC address of that PC.
	To find out the PC's MAC address, see Appendix A. (also see Glossary for an
	explanation on MAC address.
Use the following IP	Select it if the ISP provides you a static IP to connect to the L2TP server.
address	
IP Address	This is the IP address that your ISP has given you to establish a L2TP
IF AUUIESS	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.	
	Enter the User Name provided by your ISP for the L2TP connection.	
User ID	Sometimes called a Connection ID.	
Password	Enter the Password provided by your ISP for the L2TP connection	
	If your LAN has a L2TP gateway, enter that L2TP gateway's IP address here. If	
L2TP Gateway	you do not have a L2TP gateway, enter the ISP's Gateway IP address above.	
	This is an optional parameter. You can specify the maximum size of	
мти	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	
	If you select " Continuous ", 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.	
	If you select "Connect On Demand", 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	
Connection Type	one is using the Internet exceeds the "Idle Time".	
	If you select "Manual", 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: Continuous.	
	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.	
	Note: This "idle timeout" function may not work due to abnormal activities of	
Idle Time	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.	

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.

	Home General Setup Status Tool Internet Broadband Router
 1.Time Zone 2.Broadband Type 3.IP Address Info 	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 : 0.0.0

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	If you ISP has provide the login server IP address to you, please check this box and
server manually	enter the Login Server IP address below.
Login Server	Please enter the Login Server IP address here.

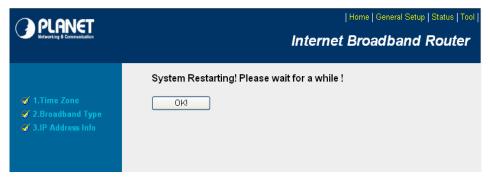
When the configuration finished please click "OK" to next step or click "Back" to previous step. After press "OK", you will see a web screen to prompt you the configurations save successfully. Please refer to section 4.2.7 for the information of this screen.

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-620 restart, the settings are saved, but not function yet. Press "Apply" to restart the WNRT-620 for the change to take effect immediately.

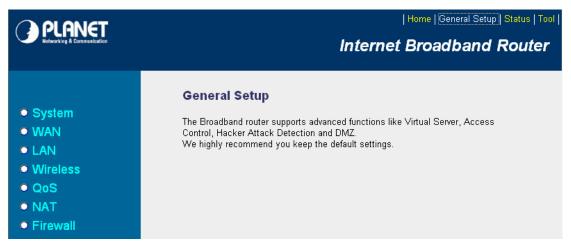
PLANET	Home General Setup Status Tool		
Networking & Communication	Internet Broadband Router		
 ✓ 1.Time Zone ✓ 2.Broadband Type ✓ 3.IP Address Info 	Save setting successfully! Please press APPLY button to restart the system for changes to take effect. Apply		

Please wait for 30 seconds for WNRT-620 restart. After restart procedure finished, please click "OK" to return to HOME screen.



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.

() PLANET	Home General Setup Status Tool
Retworking & Communication	Internet Broadband Router
System This page	ncludes the basic configuration tools for the Broadband router's remote nt access function.

5.1.1 Time Zone

The Time Zone allows WNRT-620 to allocate its time on the settings configured here; it will affect log display functions such as Security Log and Firewall settings.

PLANET		Home General Setup Status Tool
Vetworking & Communication		Internet Broadband Router
	Time Zone 🕖	
 System Time Zone Password Settings Remote Management 	Set the time zone of the Broadb and firewall settings.	pand router. This information is used for log entries
• WAN	Set Time Zone :	(GMT)Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London 💌
• LAN	Time Server Address :	192.43.244.18
WirelessQoS	Daylight Savings :	Enable Function Times From January 1 To January 1
NATFirewall		Apply Cancel

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.

	You can keep the default IP address or enter a new Time Server Address for this
Time Server Address	device to synchronize its time. You can also refer to the web site
	http://www.ntp.org to find a nearest time server.
	The router can also take Daylight savings into account. Select the check box to
Daylight Savings	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.

PLANET	Home General Setup Status Tool
Retwarking & Connecesication	Internet Broadband Router
System Time Zone Password Settings Remote Management WAN LAN Wireless QoS NAT Firewall	Password Settings 1 You can change the password required to log into the broadband router's system web-based managemunt. By default, the password is admin. So please assign a password to the Administrator as soon as possible, and store it in a safe place. Passwords can contain 1 to 30 alphanumeric characters, and are case sensitive. Current Password :

Parameters	Description
Current Password	Enter your current password for the remote management administrator to
Current Password	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-620 to the factory default by press **RST/WPS** button (on WNRT-620'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.

	Int	ernet Broadl	band Rout
	Remote Management 🕖		
 ✓ System ▶ Time Zone ▶ Password Settings ▶ Remote Management 	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.		
WAN LAN	Host address	Port 8080	Enabled
Wireless QoS		Apply	Cancel
NAT Firewall			

Parameters	Description
	The IP address of the host on Internet that will have management / configuration
	access to the Broadband router. Leave it to 0.0.0.0 means anyone can access the
	router's web-based configuration from any remote location.
	Click the Enabled box to enable the Remote Management function.
Host Address	Note: 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.

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.

A PI ANET		Home General Setup Status Tool
Networking & Communication		Internet Broadband Router
● System ダ WAN	WAN Settings The Broadband router can b	e connected to your Service Provider through the following methods
▶ Dynamic IP ▶ Static IP	Oynamic IP	Obtains an IP Address automatically from your Service Provider.
> PPP₀E > PPTP	○ Static IP	Uses a Static IP Address. Your Service Provider gives a Static IP Address to access Internet services.
 L2TP Telstra Big Pond DNS 	Ο ΡΡΡοΕ	PPP over Ethernet is a common connection method used in xDSL connections.
 DNS DDNS 	○ РРТР	Point-to-Point Tunneling Protocol is a common connection method used in xDSL connections.
● LAN ● Wireless	○ L2TP	Layer Two Tunneling Protocol is a common connection method used in xDSL connections.
● Q₀S	🔿 Telstra Big Pond	Telstra Big Pond is a Internet service is provided in Australia.
NATFirewall		More 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.

	Home General Setup Status Tool Internet Broadband Router
 System WAN Dynamic IP Static IP PPPoE PPTP L2TP Telstra Big Pond DNS 	Dynamic IP
 LAN Wireless QoS NAT Firewall 	Apply Cancel

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.

	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 	Static IP W 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

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.

O PI ANET	Home General Setup Status Tool
Networking & Communication	Internet Broadband Router
 System WAN Dynamic IP Static IP PPPoE PPTP L2TP 	PPPoE 2 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.
Telstra Big Pond DNS	User Name :
	Password :
• LAN	Service Name :
• Wireless	MTU: 1392 (512<=MTU Value<=1492)
O QoS	Connection Type : Continuous 💌 Connect Disconnect
• NAT	Idle Time Out: 10 (1-1000minutes)
• Firewall	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.

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.

O PI ONET	Home General Setup Status Tool
Networking & Communication	Internet Broadband Router
	L2TP 1
● System ダ WAN	Layer Two Tunneling Protocol is a common connection method used in xDSL connections.
 Dynamic IP Static IP PPPoE 	WAN Interface Settings Obtain an IP address automatically
 PPTP L2TP Telstra Big Pond DNS 	Host Name : MAC address : 00000000000 Clone Mac address Use the following IP address
	IP address: 0.0.0.0 Subnet Mask: 0.0.0.0
WirelessQoS	Default Gateway : 0.0.0.0 • L2TP Settings
NATFirewall	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

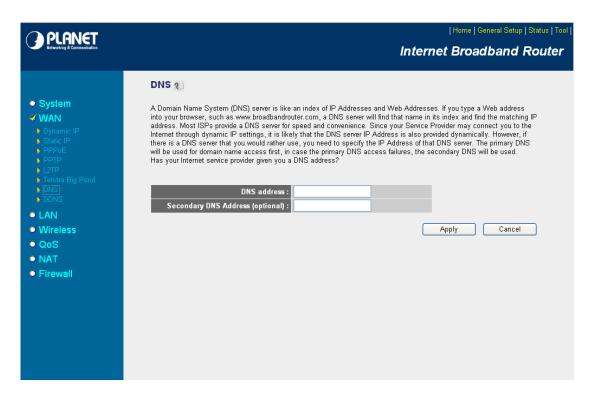
5.2.6 Telstra Big Pond

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.

PLANET	Home General Setup Status Tool
Networking & Consensitation	Internet Broadband Router
 System WAN Dynamic IP Static IP PPPoE PPTP L2TP Telstra Big Pond DNS DDNS LAN Wireless QoS NAT Firewall 	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 Teistra BigPond. User Name: Password: User decide login server manually Login Server: Apply Cancel

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, 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.



Parameters	Description
DNS address	This is the ISP's DNS server IP address that they gave you; or you can
DNS address	specify your own preferred DNS server IP address.
Secondary DNS Addres	This is optional. You can enter another DNS server's IP address as a
(optional)	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-620 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 Sta Internet Broadband Ro	
 System 	DDNS &	
VAN Dynamic IP Static IP	static domain name from the DDNS service providers. Our products have DDNS support for www.dyndns.org and www.tzo.com now.	
	Dynamic DNS : OEnabled ODisabled	
	Provider : DynDNS V	
> DNS > DDNS	Domain Name : Account / E-Mail :	
• LAN	Password / Key :	
• Wireless		
QoS	Apply Cancel	
• NAT		
Firewall		

Parameters	Description	
Dynamic DNS	Enable/Disable the DDNS function of this router.	
Provider	elect 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.	

5.3 LAN

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

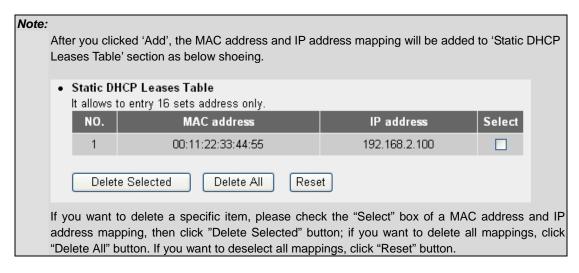
	Home General Setup Status Tool
Networking & Communication	Internet Broadband Router
	LAN Settings
 System 	You can enable the Broadband router's DHCP server to dynamically allocate IP Addresses to your LAN client PCs. The
• WAN	broadband router must have an IP Address for the Local Årea Network.
≪ LAN	• LAN IP
 Wireless QoS 	IP address 192.168.0.1
O NAT	Subnet Mask 255.255.0
• Firewall	802.1d Spanning Tree Disabled 💌
	DHCP Server Enabled 💌
	DHCP Server
	Lease Time Forever V
	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		
LAN IP	Please input the IP address of this router.		
	Designate the Access Point's IP Address. This IP Address should be unique in		
IP Address	your network. The default IP Address is 192.168.0.1 .		
Subnet Mask	Specify a Subnet Mask for your LAN segment. The Subnet Mask of the Access		
• • • • • • • • • • • • • • • • • • • •	Point is fixed and the value is 255.255.255.0 .		
	If it is enabled, this router will use the spanning tree protocol to prevent from		
802.1d Spanning Tree	network loop happened in the LAN ports.		
DHCP Server	Enable or disable the DHCP Server.		

DHCP Server	These settings are only available when 'DHCP Server' in 'LAN IP' section is
DHCP Server	'Enabled'
	The DHCP Server will temporarily assign IP addresses to LAN clients. In the
Lease Time	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.

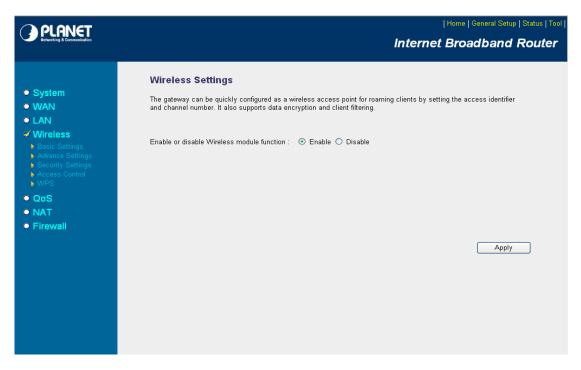
	You can designate a particular IP address range for your DHCP server to issue IP	
Start IP/End IP	addresses to your LAN Clients. By default the IP range is from: Start IP	
	192.168.0.100 to End IP 192.168.0.200.	
Domain Name	You can specify the Domain Name for your Access Point.	

	This function allows you to assign a static IP address to a specific computer	
Static DHCP Leases	forever, so you don't have to set the IP address for a computer, and still enjoy the	
Table	benefit of using DHCP server. Maximum 16 static IP addresses can be assigned	
	here.	
Enable Static DHCP	Check this box to enable this function, otherwise uncheck it to disable this	
Leases	function.	
MAC Address	Input the MAC address of the computer or network device (total 12 characters,	
MAC Address	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	
Auu	pair to static DHCP leases table.	
Clear	If you want to remove all characters you just entered, please click it.	



5.4 Wireless

This screen allows you to Enable/Disable WNRT-620 wireless function.



Parameters	Description
Enable/Disable	You can select to "Enable" or "Disable" the Wireless interface. After
	selected, please click "Apply" to make the settings effect.

5.4.1 Basic Settings

WNRT-620 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-620 will work with AP mode.

	Home General Setup Status Tool Internet Broadband Router
 System WAN LAN Wreless Advance Settings Advance Settings Accass Control VPS 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: AP Band: 2.4 GHz (B+G+N) v ESSID: default Channel Number: 11 v

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-620. Please click "Apply" to save the settings when configuration finished.

			ly advanced users who have a suffici u know what effect the changes will	ent knowledge about wireless LAN. These	
System	settings should not be changed	i uniess yo	a know what elect the changes will	lave on your broadband router.	
WAN	Fragment Threshold:	2346	(256-2346)		
LAN	RTS Threshold:	2347	(0-2347)		
Wireless	Beacon Interval:	100	(20- 1024 ms)		
 Basic Settings Advanced Settings 	DTIM Period:	3	(1-10)		
 Security Settings Access Control 	Data Rate:	Auto 🛩			
> WPS	N Data Rate:	Auto 💌	•		
QoS	Channel Width:	 Auto 	20/40 MHZ O 20 MHZ		
NAT Firewall	Preamble Type:	 Short 	Preamble O Long Preamble		
o riiewaii	Broadcast Essid:	O Enable	e 🔿 Disable		
	CTS Protect:	O Auto	O Always O None		
	Tx Power:	100 % 🗸			
	WMM:	Enable	e O Disable		

Parameters	Description			
	"Fragment Threshold" specifies the maximum size of packet during the			
Fragment Threshold	fragmentation of data to be transmitted. If you set this value too low, it will result			
	in bad performance.			
DTO Thread ald	When the packet size is smaller the RTS threshold, the access point will not use			
RTS Threshold	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			
beacon interval	synchronize the wireless network.			
	Set the DTIM period of wireless radio. Do not modify default value if you don't			
DTIM Period	know what it is, default value is 3.			
	The Data Rate is the rate of data transmission for 802.11b/g clients. The			
Data Rate	WNRT-620 will use the highest possible selected transmission rate to transmit			
	the data packets.			
	Set the wireless data transfer rate to a certain value for 802.11n clients. Since			
N Data Rate	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 defines the length of CRC block in the frames during the wireless			
Preamble Type	communication. "Short Preamble" is suitable for high traffic wireless network.			
	"Long Preamble" can provide more reliable communication.			
	If you enable "Broadcast ESSID", every wireless station located within the			
Broadcast ESSID	coverage of this access point can discover this WNRT-620 easily. If you are			
	building a public wireless network, enabling this feature is recommended. In			
	private network, disabling "Broadcast ESSID" can provide better security.			
	It is recommended to enable the protection mechanism. This mechanism can			
CTS Protection	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-620 output power to 100%, 90%, 75% 50% 25% and			
	10%. In default, WNRT-620 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.			

N Data Rate Table

MCS Index	HT20	HT40
MCS mdex	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-620 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".

O PLANET	Home General Setup Status Tool
Networking & Communication	Internet Broadband Router
 System WAN LAN Wireless Basic Settings Advance Sottings Advance Sottings 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: Disable Encryption: Disable Encryption: Cancel Apply Cancel

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.

PLANET	Home General Setup Status Tool
Networking & Communication	Internet Broadband Router
	Security Settings
 System WAN 	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.
 LAN Wireless 	Encryption : WEP
 Basic Settings Advance Settings Security Settings 	Key Length : 64-bit Key Format : Hex (10 characters)
 Access Control WPS 	Default Tx Key : Key 1 💌
● QoS ● NAT	Encryption Key 1 : **********************************
• Firewall	Encryption Key 3 :
	Encryption Key 4 : ********* Fnable 802.1x Authentication
	Apply Cancel

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

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 Authenticatio	n
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-620 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.

	Home General Setup Status Tool 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: WPA(TKIP) WPA2(AES) 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 (TKIP)	TKIP can change the encryption key frequently to enhance the wireless
		LAN security.
WPA Unicast	WPA2 (AES)	This use CCMP protocol to change encryption key frequently. AES can
Cipher Suite		provide high-level encryption to enhance the wireless LAN security.
		This will use TKIP or AES based on the other communication peer
	WPA2 Mixed	automatically.
		You may select to select Passphrase (alphanumeric format) or
Pre-shared Key	Format	Hexadecimal Digits (in the "A-F", "a-f" and "0-9" range) to be the
		Pre-shared Key.
		The Pre-shared key is used to authenticate and encrypt data
Pre-shared Key		transmitted in the wireless network. Fill the text box by following the
		rules below.
		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.

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.

PLANET	Home General Setup Status Tool
Networking & Communication	Internet Broadband Router
	Security Settings
 System WAN LAN 	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.
✓ Wireless	Encryption : WPA RADIUS
 Basic Settings Advance Settings Security Settings 	WPA Unicast Cipher Suite : O WPA(TKIP) O WPA2(AES) O WPA2 Mixed RADIUS Server IP address :
 Access Control WPS 	RADIUS Server Port: 1812
 QoS NAT Firewall	RADIUS Server Password : Apply Cancel

Parameter		Description
Encryption		Please select "WPA RADIUS" in this option.
	WPA (TKIP)	TKIP can change the encryption key frequently to enhance the wireless LAN security.
WPA Unicast Cipher Suite	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.

5.4.4 Access Control

WNRT-620 provides MAC Address Filtering, which prevents the unauthorized users from accessing your wireless network.

A PLANET	Home General Setup Status Tool
Networking & Communication	Internet Broadband Router
 System WAN LAN Wireless Basic Settings Advance Settings Advance Settings Access Control WYS QoS NAT Firewall 	MAC Address Filtering For security reason, the Access Point features MAC Address Filtering that only allows authorized MAC Addresses associating to the Access Point. • MAC Address Filtering Table It allows to entry 20 sets address only. • MAC address Comment Select • Delete Selected Delete All Reset • Enable Wireless Access Control • MAC address : Comment: Add Clear • Add Clear

Parameters	Description
Enable Wireless	Enchle or dischle the MAC Address Eiltering function
Access Control	Enable or disable the MAC Address Filtering function.
Add MAC Address	In the bottom "New" area, fill in the "MAC Address" and "Comment" of the wireless
to the control table	station and then click "Add". Then this wireless station will be added into the "MAC
	Address Filtering Table" above.
Remove MAC	If you want to remove some MAC address from the "Current Access Control List",
address from the	select the MAC addresses you want to remove in the list and then click "Delete
table	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.

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 this wireless 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 have to know the PIN code of wireless client and switch it to WPS mode, then provide the PIN code of the wireless client you wish to connect to this wireless router.

PLANET	Home General Setup Status Tool
Networking & Communication	Internet Broadband Router
 System WAN LAN Wireless Basic Settings Advance Settings Security Settings Security Settings Access Control WPS QoS NAT Firewall 	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: 26460321 Status: VEP Authentication Mode WEP Passphrase Key Device Configure Stat PBC
	Configure via Client PinCode: Start PIN

Parameters	Description	
Enable WPS	Check this box to enable WPS function, uncheck it to disable WPS.	
Wi-Fi Protected	WPS-related system information will be displayed here.	
Setup Information		
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 you need	
Sell PIN code	to build wireless connection by WPS with other WPS-enabled wireless devices.	
SSID	The SSID of this wireless router will be displayed here.	
Authentication	The wireless security authentication mode of this wireless router will be displayed	

Mode	here.
	Confirming your Identity Key Store Pass-phrase. It is allowed you to easily
Passphrase Key	remember the key what you may want to remember is that if the
	passphrase is used,

Device Configure	
	Click 'Start PBC' to start Push-Button style WPS setup procedure. This wireless
Configure via Push	router will wait for WPS requests from wireless clients for 2 minutes. The 'WLAN'
Button	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 wireless client 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.

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.

	Internet Broadband Router
oal of QoS is to provide priority includ	capability of a network to provide better service to selected network traffic. The primary ling dedicated bandwidth, controlled jitter and latency (required by some real-time and haracteristics. Also important is making sure that providing priority for one or more O kbits O kbits Upload Bandwidth Download Select Delete All Move Up Move Down Reset Apply Cancel
	uality of Service (QoS) refers to the u al of QoS is to provide priority inclus eractive traffic), and improved loss o ws does not make other flows fail. Enable QoS stal Download Bandwidth: stal Upload Bandwidth: urrent QoS Table riority Rule Name

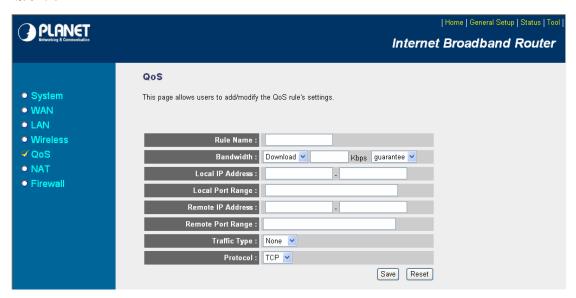
Parameters	Description
Enable QoS	Check this box to enable QoS function, unselect this box if you don't want to
	enforce QoS bandwidth limitations.
Total Download Bandwidth	You can set the limit of total download bandwidth in kbits. To disable
	download bandwidth limitation.
Total Lipland Pandwidth	You can set the limit of total upload bandwidth in kbits. To disable upload
Total Upload Bandwidth	bandwidth limitation.
4 d d	When you want to add a new QoS rule, press this button and refer to section
Add	5.5.1 to add a new QoS rule.
Edit	When you want to edit the existing QoS rule, press this button and refer to
	section 5.5.1 to edit QoS rule.
Delete Selected	Select the QoS rule which you would like to delete , then press this button to
Delete Selected	delete.
	When you want to delete all the QoS rules, you just need to press this
Delete All	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	If you want to erase all values you just entered, please click "Reset" to clear
	your current selections.

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.



Parameters	Description
Rule Name	Please give a name to the QoS Rule
	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
Bandwidth	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.
Local Port Range	Please enter the port range.
Remote IP Address	Please enter the IP address of the PC from remote site.
Remote Port Range	Please enter the port range.
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.

O PI ONET	Home General Setup Status Tool
Networking & Communication	Internet Broadband Router
 System WAN LAN 	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.
Wireless QoS NAT Port Forwarding Virtual Server Special applications	Enable or disable NAT module function : 💿 Enable 🔿 Disable
UPnP Setting ALG Settings Firewall	Арріу

Parameters	Description
	You can select to enable or disable the NAT function. If you choose the
Frakla ar Disable NAT	disable, the NAT sub-function will just let you to use the function of Static
Enable or Disable NAT	Routing setting as well as the fast NAT mode also cannot be used even it is
module function	in the status of enable. After selected, please click "Apply" to make the
	settings effect.

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.

PLANET	Home General Setup Status Tool
Networking & Communication	Internet Broadband Router
 System WAN LAN Wireless QoS NAT Static Routing Firewall 	Static Routing ? You can enable Static Routing to turn off NAT function of this router and let this router forward packets by your routing policy. Image: I

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	
Destination LAN IP	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	
Subriet Mask	ISP or network administrator provides you with this information.	
Default Gateway	Type the gateway address of your network. Your ISP or network	
Delault Galeway	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	
Add	of this page.	
Reset	Click "Reset" will clear your current settings to allow you to enter again.	
Current Static Routing T	able	
	If you want to remove some Destination LAN IP address from the "Current	
Delete Selected	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.	
---	--

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.

	Home General Setup Status Tool Internet Broadband Router
 System WAN LAN Wireless QoS NAT Port Forwarding Yritual Server Special applications UPnP Setting ALG Settings Firewall 	Port Forwarding Thries in this table allow you to automatically redirect common network services to a specific machine behind the NAT firewal. 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 firewal. • Enable Port Forwarding • Enable Port Forwarding • Image Comment • Add Reset Durent Port Forwarding Table • Private IP • Private IP Type Port Range • Delete Selected Delete All Reset

Parameters	Description	
Enable Port Forwarding	Enable Port Forwarding.	
	This is the private IP of the server in LAN.	
Private IP	Note: You need to give your LAN PC clients a fixed/static IP address for Port	
	Forwarding to work properly.	
	This is the protocol type to be forwarded. You can choose to forward "TCP"	
Туре	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.	
	Fill in the "Private IP", "Type", "Port Range" and "Comment" of the setting to	
Add	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		
	be cleared.	
Reset	Click "Reset" will clear your current settings to allows you to enter again.	
Current Port Forwarding	Table	
	If you want to remove some MAC address from the "Current Access Control	
Delete Selected	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.	

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. (See Glossary for an explanation on Port number).

() PLANET	Home General Setup Status Tool
Vetworking & Communication	Internet Broadband Router
 System WAN LAN Wireless QoS NAT Port Forwarding Virtual Server Special applications UPAP Setting ALG Settings 	Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server
 Firewall 	Current Virtual Server Table NO. Private IP Private Port Type Public Port Comment Select Delete Selected Delete All Reset Apply Cancel

Parameters	Description
Enable Virtual Server	Enable Virtual Server.

	This is the LAN client/host IP address that the Public Port number packet will	
Private IP	be sent to.	
	Note: You need to give your LAN PC clients a fixed/static IP address for	
	Virtual Server to work properly.	
	This is the port number (of the above Private IP host) that the below Public	
Private Port	Port number will be changed to when the packet enters your LAN (to the	
	LAN Server/Client IP).	
Turne	Select the port number protocol type (TCP, UDP or Both). If you are unsure,	
Туре	then leave it to the default both protocols.	
	Enter the service (service/Internet application) port number from the Internet	
Dublic Dort	that will be re-directed to the above Private IP address host in your LAN.	
Public Port	Note: Virtual Server function will have priority over the DMZ function if there	
	is a conflict between the Virtual Server and the DMZ settings.	
	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	
Add	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.	
Reset	Click "Reset" will clear your current settings to allows you to enter again.	
Current Virtual Server Ta	ble	
	If you want to remove some items from the "Current Virtual Server Table",	
Delete Selected	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.	

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.

A PI ANET	Home General Setup Status Tool
Networking & Commenication	Internet Broadband Router
 System WAN LAN Wireless QoS NAT Port Forwarding Virtual Server Special applications UPnP Setting ALG Settings Firewall 	Special Applications Image: Comparison of the point of the poin

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.		
	Enter the In-coming (Inbound) port for this type of application (e.g.		
TCP Port to Open	2300-2400, 47624).		
	Note: Individual port numbers are separated by a comma (e.g. 47624, 5775,		
UDP Port to Open	and 6541 etc.).		
Comment	The description of this setting.		
	This section lists the more popular applications that require multiple		
	connections. Select an application from the Popular Applications selection.		
Popular Applications	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 Ta	able		

	If you want to remove some items from the "Current Trigger Port Table",	
Delete Selected	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.	

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.

PLANET	Home General Setup Status Tool
Returning & Consensature	Internet Broadband Router
 System WAN LAN Wireless QoS NAT Port Forwarding Virtual Server Special applications UPnP Setting ALG Settings Firewall 	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 who upper the devices and 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.

5.6.6 ALG Settings

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

PLANET References à Consenication			Home General Setup Status Tool Internet Broadband Router
 System WAN LAN Wireless 	Application Layer Below are applications that that you are using.		cial support to make them work under the NAT. You can select applications
● QoS ≪ NAT		Amanda Egg	Support for Amanda backup tool protocol. Support for eggdrop bot networks.
 Port Forwarding Virtual Server Special applications 		FTP H323	Support for FTP.
 UPnP Setting ALG Settings 		IRC	Allows DCC to work though NAT and connection tracking.
Firewall		MMS Quake3	Support for Microsoft Streaming Media Services protocol. Support for Quake III Arena connection tracking and nat.
		Talk	Allows netfilter to track talk connections.
		TFTP IPsec	Support for TFTP. Support for IPsec passthrough
		Starcraft MSN	Support for Starcraft/Battle.net game protocol. Support for MSN file tranfer.
			Apply Cancel

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

5.7 Firewall

WNRT-620 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).

O PI ANET	Home General Setup Status Tool
Networking & Communication	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 ③ Enable ① 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.

PLANET	Home General Setup Status Tool
	Internet Broadband Router
	Access Control 🥡
SystemWANLAN	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.
 Wireless QoS 	Enable MAC Filtering Deny Allow Client PC MAC address Comment
• NAT	
Firewall Access Control	Add Reset
 VRL Blocking DoS 	MAC Filtering Table
> DMZ	NO. Client PC MAC address Comment Select
	Delete Selected Delete All Reset
	Enable IP Filtering Table (up to 20 computers) O Deny O Allow
	NO. Client PC Description Client PC IP address Client Service Protocol Port Range Select Add PC Delete Selected Delete All
	Apply Cancel 🗸

Parameters	Description
	Check "Enable MAC Filtering" to enable MAC Filtering.
	If select "Deny", all PCs will be allowed to access Internet accept for the PCs
Enable MAC Filtering	in the list below.
	If select "Allow", all PCs will be denied to access Internet accept for the PCs
	in the list below.
	Fill in "Client PC MAC Address" and "Comment" of the PC that is allowed to
Add PC	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.
	If you want to remove some PC from the "MAC Filtering Table", select the
Remove PC	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".
	Check "Enable IP Filtering Table" to enable IP filter.
	If select "Deny", all PCs will be allowed to access Internet accept for the PCs
Enable IP Filtering Table	in the list below.
	If select "Allow", all PCs will be denied to access Internet accept for the PCs
	in the list below.
Add PC	You can click "Add PC" to add an access control rule for users by IP
	addresses. Please refer to section 5.7.1.1.
	If you want to remove some PCs from the "IP Filtering Table", select
Remove PC	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.
------------	--

Add PC

Access Control Add PC This page allows users to define service limitation of client PC, including IP at NN N reless S Client PC Description: Client PC Description: Client PC P Dedress: Client PC P address: Client PC Service : Client PC Service : Client PC Service : Client PC Service SMTP, TCP Port 80, 3128, 8000, 8080, 8081 E-mail Sending S Client Receiving POP3, TCP Port 119 E-mail Receiving POP3, TCP Port 110 Secure HTTP HTTPS, TCP Port 21 MSN Messenger TCP Port 1863 Telnet Service AIM AOL Instant Messenger, TCP Port 5190 NetMeeting H :323, TCP Port 389,522,1603,1720,1731	ddress and service type.
And Sector 1 Client PC Description : Sector 1 Client PC IP address : Client PC Service : - Sector 1 Sector 1 Ellocking Service Name Detail Description - Sector 1 Service Name Detail Description - VVVV HTTP, TCP Port 80, 3128, 8000, 8080, 8081 E-mail Sending SMTP, TCP Port 25 News Forums NNTP, TCP Port 119 E-mail Receiving POP3, TCP Port 110 Secure HTTP HTTPS, TCP Port 21 MSN Messenger TCP Port 23 AIM AOL Instant Messenger, TCP Port 5190	Select
N Client PC Description : eless Client PC IP address : Client PC IP address : - Wall Service Name Detail Description weall Service Name Detail Description Blocking Service Name Detail Description Elocking Service Name Detail Description SZ News Forums NNTP, TCP Port 80, 3128, 8000, 8080, 8081 E-mail Sending SMTP, TCP Port 25 News Forums NNTP, TCP Port 119 E-mail Receiving POP3, TCP Port 110 Secure HTTP HTTPS, TCP Port 443 File Transfer FTP, TCP Port 21 MSN Messenger TCP Port 1863 Tent Service TCP Port 23 AIM AOL Instant Messenger, TCP Port 5190	Select
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Client PC IP address : - wall Client PC Service : ses Control Detail Description Ellocking MWW HTTP, TCP Port 80, 3128, 8000, 8080, 8081 E-mail Sending SMTP, TCP Port 25 News Forums NNTP, TCP Port 119 E-mail Receiving POP3, TCP Port 110 Secure HTTP HTTPS, TCP Port 443 File Transfer FTP, TCP Port 21 MSN Messenger TCP Port 1863 Telnet Service TCP Port 23 AIM AOL Instant Messenger, TCP Port 5190	
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MSN Messenger TCP Port 1863 Telnet Service TCP Port 23 AIM AOL Instant Messenger, TCP Port 5190	
Telnet Service TCP Port 23 AIM AOL Instant Messenger, TCP Port 5190	
AIM AOL Instant Messenger, TCP Port 5190	
NetMeeting H.323, TCP Port 389.522.1503.1720.1731	
DNS UDP Port 53	
SNMP UDP Port 161, 162	
VPN-PPTP TCP Port 1723	
VPN-L2TP UDP Port 1701	
TCP All TCP Port	
UDP All UDP Port	
User Define Service	
Protocol: Both 💌	
Port Range:	

Parameters

Description

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

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.

A PI ANET	Home General Setup Status Tool
Wetworking & Communication	Internet Broadband Router
 System WAN LAN Wireless QoS NAT Firewall Access Control URL Blocking DoXS DMZ 	URL Blocking You can block access to certain Web sites from a particular PC by entering either a full URL address or just a keyword of the Web site. Enable URL Blocking URL/Keyword Add Reset Delete Selected Delete All Reset Apply Cancel

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".

5.7.3 DoS

WNRT-620'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.

PLANET	Home General Setup Status Tool
Networking & Communication	Internet Broadband Router
	Denial of Service 🥡
● System ● WAN ● LAN	The Broadband router's firewall can block common hacker attacks, including DoS, Discard Ping from WAN and Port Scan.
• Wireless	Denial of Service Feature
 QoS NAT 	Ping of Death
 Firewall 	Discard Ping From WAN
 Access Control 	Port Scan
URL Blocking	Sync Flood
> DoS > DMZ	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.
	If you want to configure the details of each setting above, click this button,
Advance Settings	and you will see the detail configure screen. Please make sure what the
	effect of the settings will affect before your adjustment.

	Please see section 5.7.3.1 'DoS – Advanced Settings' below.
--	---

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	
Ping of Death	5 Packet(S) Per Second 🕑 Burst 5
Discard Ping From WAN	
Port Scan	 NMAP FIN / URG / PSH Xmas tree Another Xmas tree Null scan SYN / RST SYN / FIN SYN (only unreachable port)
Sync Flood	5 Packet(S) Per Second 🔽 Burst 5
	Apply Cancel

Parameters	Description
	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
Ping of Death	(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.

O PLANET	Home General Setup Status Tool
Networking & Communication	Internet Broadband Router
 System WAN LAN Wireless QoS NAT Firewall Access Control URL Blocking DoS DMZ 	DMZ(Demilitarized Zone) 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. Image:

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

Chapter 6 Wireless Configuration

In this chapter, you can Enable/Disable wireless function and configure the WNRT-620 work in different operating mode. Please refer to below sections to know the details configuration of each operating mode.

() PI ANET	Home General Setup Status Tool
Networking & Communication	Internet Broadband Router
 System WAN LAN Wireless Basic Settings Advance Settings Advance 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

6.1 AP Mode

This mode is set to WNRT-620 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-620 to other operating
	mode by select other operating mode.
	2.4GHz (B): It forces the WNRT-620 to operate in 802.11b only.
	2.4GHz (G): It forces the WNRT-620 to operate in 802.11g only.
	2.4GHz (N): It forces the WNRT-620 to operate in 802.11n only.
Band	2.4GHz (B+G): It allows the WNRT-620 to operate in 802.11b and 802.11g
	simultaneously.
	2.4GHz (B+G+N): It allows the WNRT-620 to operate in 802.11b, 802.11g, and
	802.11n simultaneously.
	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.
ESSID	Please make sure that the ESSID of all stations in the same WLAN network are the
	same. The default value is " default ".
	Select the appropriate channel from the list provided to correspond with your
Channel Number	network settings. Channels differ from country to country.
	Channel 1-11 (North America)
	You may press "Show Active Clients" button to check the connected client
	information. After the button pressed, you will see the dialog box as below.
	Active Wireless Client Table
Associated Client	This table shows the MAC address, transmission, receiption 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.

information about this screen.

6.2 Station-Infrastructure Mode

WRT-620 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.

PLANET	Home General Setup Status Tool
Networking & Communication	Internet Broadband Router
 System WAN LAN Wireless Basic Settings Advanced Settings Security Settings Access Control WPS QoS NAT 	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) V ESSID: default Site Survey: Select Site Survey WLAN MAC: D0000000000 Clone MAC
• Firewall	Apply Cancel

Parameter	Description
Mode	Shows the current operation mode. You may set WRT-620 to other
	operating mode by select other operating mode.
Band	2.4GHz (B): It forces the WNRT-620 to operate in 802.11b only.
	2.4GHz (G): It forces the WNRT-620 to operate in 802.11g only.
	2.4GHz (N): It forces the WNRT-620 to operate in 802.11n only.
	2.4GHz (B+G): It allows the WNRT-620 to operate in 802.11b and
	802.11g simultaneously.
	2.4GHz (B+G+N): It allows the WNRT-620 to operate in 802.11b,
	802.11g, and 802.11n simultaneously.
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	You also can press "Select Site Survey" button to choose wireless
	network that exists at the moment you will connect.

	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
	O 1 PLANET2000 00:0B:6B:09:8F:6A WEP OPEN 96 11b/g In
	O 10 default 00:30:4F:3A:D4:30 NONE OPEN 100 11b/g In
	O 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.
WLAN MAC	Keep default setting : WRT-620 will use it's own MAC address to access the wireless LAN.
	Press "MAC Clone" button: It will use PC's MAC address to access the
	wireless LAN.

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-620 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-620 to bridge 2 wired Ethernet networks wirelessly.

PLANET	Home General Setup Status Tool
Networking & Communication	Internet Broadband Router
 System 	Wireless Settings This page allows you to define ESSID, and Channel for the wireless connection. These parameters are used for the wireless
• WAN • LAN	stations to connect to the Access Point. Mode: AP Bridge-Point to Point
 Wireless Basic Settings Advance Settings Security Settings 	Band: 2.4 GHz (B+G+N) ▼
Access Control WPS QoS	Channel Number: 11 V MAC address 1 : 00000000000 Set Security : Set Security
NATFirewall	Apply Cancel

Parameter	Description
Mode	Shows the current operation mode. You may set WNRT-620 to other operating
Mode	mode by select other operating mode.
	2.4GHz (B): It forces the WNRT-620 to operate in 802.11b only.
	2.4GHz (G): It forces the WNRT-620 to operate in 802.11g only.
	2.4GHz (N): It forces the WNRT-620 to operate in 802.11n only.
Band	2.4GHz (B+G): It allows the WNRT-620 to operate in 802.11b and 802.11g
	simultaneously.
	2.4GHz (B+G+N): It allows the WNRT-620 to operate in 802.11b, 802.11g, and
	802.11n simultaneously.
	Select the appropriate channel from the list provided to correspond with your
Channel Number	network settings. Channels differ from country to country.
	Channel 1-11 (North America)
MAC Address 1	Please enter the MAC Address of another WNRT-620 that this one will connect.
	IF you want to enable security to protect your wireless connection. Please press
Set Security	"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-620 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-620 to bridge more than 2 wired Ethernet networks together by wireless connection.

O PLANET	Home General Setup Status Tool
Networking & Communication	Internet Broadband Router
 System WAN LAN Wireless Basic Settings Advance Settings Advance Settings Access Control WPS QoS NAT 	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-Point to Multi-Point v Band: 2.4 GHz (B+G+N) v Channel Number: 11 v MAC address 1: 0000000000 MAC address 3: 0000000000
• Firewall	MAC address 4 : 0000000000 Set Security : Set Security Apply Cancel

Parameter	Description
Mode	Shows the current operation mode. You may set WNRT-620 to other operating
	mode by select other operating mode.
	2.4GHz (B): It forces the WNRT-620 to operate in 802.11b only.
	2.4GHz (G): It forces the WNRT-620 to operate in 802.11g only.
	2.4GHz (N): It forces the WNRT-620 to operate in 802.11n only.
Band	2.4GHz (B+G): It allows the WNRT-620 to operate in 802.11b and 802.11g
	simultaneously.
	2.4GHz (B+G+N): It allows the WNRT-620 to operate in 802.11b, 802.11g, and
	802.11n simultaneously.
	Select the appropriate channel from the list provided to correspond with your
Channel Number	network settings. Channels differ from country to country.
	Channel 1-11 (North America)
	If you want to bridge multiple WNRT-620 in this mode, you have to enter the MAC
MAC Address 1-4	addresses of other WNRT-620 into the fields.
	IF you want to enable security to protect your wireless connection. Please press
Set Security	"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-620 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-620 to bridge to other WNRT-620 and provide access for other wireless clients at the same time, you have to set the WNRT-620 to "AP Bridge - WDS". Simply speaking, "AP Bridge - WDS" function is the combination of "AP mode" and "AP Bridge-Point to Multi-Point mode".

	Home General Setup Status Tool Internet Broadband Router
● System ● WAN ● LAN ダ Wireless	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
 Wireless Basic Settings Advanced Settings Security Settings Access Control WPS QoS NAT Firewall 	Band: 2.4 GHz (B+G+N) V ESSID: default Channel Number: 11 V Associated Clients: Show Active Clients MAC address 1: 0000000000 MAC address 2: 0000000000 MAC address 3: 0000000000 MAC address 4: 0000000000 MAC address 4: 0000000000 MAC address 4: 0000000000 MAC address 5: Cancel

Parameter	Description
Mode	Shows the current operation mode. You may set WNRT-620 to other operating
Mode	mode by select other operating mode.
	2.4GHz (B): It forces the WNRT-620 to operate in 802.11b only.
	2.4GHz (G): It forces the WNRT-620 to operate in 802.11g only.
	2.4GHz (N): It forces the WNRT-620 to operate in 802.11n only.
Band	2.4GHz (B+G): It allows the WNRT-620 to operate in 802.11b and 802.11g
	simultaneously.
	2.4GHz (B+G+N): It allows the WNRT-620 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".
	Select the appropriate channel from the list provided to correspond with your
Channel Number	network settings. Channels differ from country to country.

	Channel 1-11 (North America)
Associated Client	You may press "Show Active Clients" 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, receiption 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.
MAC Address 1-4	If you want to bridge more than two wired Ethernet networks together with wireless connection, you have to enter the MAC addresses of otherWNRT-620s that with join the bridging work 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-620 with new configuration. Please refer to section 4.2.7 for more information about this screen.

6.6 Universal Repeater Mode

PLANET Heliustieg & Consensation	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) V ESSID: default Channel Number: 11 V Associated Clients: Show Active Clients Root AP SSID: Stile Survey Select Site Survey
	Apply Cancel

Parameter	Description
Mode	Shows the current operation mode. You may set WNRT-620 to other operating
	mode by select other operating mode.
	2.4GHz (B): It forces the WNRT-620 to operate in 802.11b only.
	2.4GHz (G): It forces the WNRT-620 to operate in 802.11g only.
	2.4GHz (N): It forces the WNRT-620 to operate in 802.11n only.
Band	2.4GHz (B+G): It allows the WNRT-620 to operate in 802.11b and 802.11g
	simultaneously.
	2.4GHz (B+G+N): It allows the WNRT-620 to operate in 802.11b, 802.11g, and
	802.11n simultaneously.
	The ESSID (up to 32 printable ASCII characters) is the unique name identified in a
ESSID	WLAN. The ID prevents the unintentional merging of two co-located WLANs.
23310	Please make sure that the ESSID of all stations in the same WLAN network are the
	same. The default value is "default".
	Select the appropriate channel from the list provided to correspond with your
Channel Number	network settings. Channels differ from country to country.
	Channel 1-11 (North America)
Associated Client	You may press "Show Active Clients" button to check the connected client
Associated 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, receiption packet counters for each associated wireless client. 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	You also can press "Select Site Survey" button to choose wireless network that exists at the moment you will connect. 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 SID Encrypt Authentication Signal Mode Type 1 PLANET2000 00:0B:6B:09:8F:6A VEP OPEN 96 11b/g In 10 default 00:30:4F:3A:D4:30 NONE OPEN 100 11b/g In 11 test2t2r 00:0E:2E:44:82:98 WEP OPEN 100 11b/g/n In Refresh Done Done Done OPEN 100 11b/g/n In
	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-620 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.

PLANET Networking & Consensation	Home General Setup Status Tool Internet Broadband Router
 System WAN LAN Wireless Basic Settings Advance Settings Advance 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: AP Bridge-WDS Band: 2.4 GHz (B+G+N) Band: 2.4 GHz (B+
	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 :	
Encryption Key 2 :	
Encryption Key 3 :	
Encryption Key 4 :	
	Apply Reset

Parameter	Description	
	You can select the 64 or 128-bit key to encrypt transmitted data. Larger	
Key Length	WEP key length will provide higher level of security, but the throughput	
	will be lower.	
	You may select to select ASCII Characters (alphanumeric format) or	
Key Format	Hexadecimal Digits (in the "A-F", "a-f" and "0-9" range) to be the WEP	
	Кеу.	
Default Ty Kay	Select one of the four keys to encrypt your data. Only the key you select	
Default Tx Key	it in the "Default key" will take effect.	
	The WEP keys are used to encrypt data transmitted in the wireless	
	network. Fill the text box by following the rules below.	
Eneryption Koy 1 - Koy 4	64-bit WEP: input 10-digit Hex values (in the "A-F", "a-f" and "0-9"	
Encryption Key 1 - Key 4	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-620 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.
		TKIP can change the encryption key frequently to enhance the wireless
WPA Unicast	WPA (TKIP)	LAN security.
Cipher Suite		This use CCMP protocol to change encryption key frequently. AES can
	WPA2 (AES)	provide high-level encryption to enhance the wireless LAN security.
		You may select to select Passphrase (alphanumeric format) or
Pre-shared Key	Format	Hexadecimal Digits (in the "A-F", "a-f" and "0-9" range) to be the
		Pre-shared Key.
Pre-shared Key		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.
		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.

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 Interview & Contractation		Home General Setup <u>Status</u> Tool Internet Broadband Router
	Status and Information	2
 Status Internet Connection Device Status System Log Secunty Log Active DHCP Client 		ionitor the connection status for the Broadband router's; WAN/LAN interfaces, firmware y illegal attempts to access your network, and information on all DHCP client PCs rk.
Statistics	System	
	Model	Wireless Router
Current Time 2/18/2008 7:44:19	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-620's current Internet connection status and other related information.

O OLONICT		Home General Setup Status Tool
PLANET		Internet Broadband Router
20152000	Internet Connection 1	
Status Internet Connection Device Status Uptions Lag	Were the current internet connection status and related information	
 Security Leg Active DHCP Charts 	Attain IP Protocol : Food IP connect	
Contradiction (IP Address 210.66.155.72	
	Submet Mask : 255 255 256 224	
	Default Gateway : 210.66 156.94	
Current Time 2/16/2008 7 45:48	HAC Address : 00.30.4F.44.82.61	
	Primary 0HS : 163.95 1 1	
	Secondary DNS : 168 95 192 1	

7.2 Device Status

View WNRT-620's current configuration settings. The Device Status displays the configuration settings of WLAN and LAN.

PLANET			Hame General Setup Status Toot Internet Broadband Router
Status Internet Connection Connection Status Internet Status	Device Status a		
Active CHCP-Class	w	Freless Configuration	
Statistics	Mode	AP Bridge-WDS	
A CONTRACTOR OF A	ESSID	default	
	Channel Number	11	
and a second second	Security	WEP	
Current Time tin (2000-2-02-19		LAN Configuration	
	IP Address	192.168.0.1	
	Subnet Mask	255.255 255.0	
	DHCP Server	Enable	
	MAC Address	00 30 4F 28 60 10	

7.3 System Log

This screen will show you the real-time information of WNRT-620.

	Home General Setup Status Tool Internet Broadband Router
Status	System Log 🥡 View the system operation information. You can see the system start up time, connection processetc. here.
 Device Status System Log Security Log Active DHCP Client Statistics 	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 udhcpc: udhcp client (v0.9.9-pre) started = Jan 1 01:01:05 (none) local0.info udhcpd[428]: sending OFFER of 192.168.0.
Current Time 1/1/2000 2:04:58	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

Parameters	Description	
	This page shows the current system log of WNRT-620. It displays the	
	working information about WNRT-620.	
	About the bottoms of the page, the system log can be saved to a local file by	
System Log	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.	

7.4 Security Log

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

PLANET	Home General Setup Status Tool
Networking & Communication	Internet Broadband Router
	Security Log 🕡
 Status Internet Connection Device Status System Log 	View any attempts that have been made to illegally gain access to your network.
 Security Log Active DHCP Client Statistics 	[2000-01-01 00:00:15]: start Dynamic IP [2000-01-01 01:54:12]: start Dynamic IP
Current Time 1/1/2000 2:07:35	
	Save Clear Refresh

Parameters	Description
	This page shows the current security log of WNRT-620. It displays any illegal
	attempts to access your network.
	About the bottoms of the page, the security log can be saved to a local file by
Security Log	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.

7.5 Active DHCP Client

View your client's information that is currently linked to WNRT-620's DHCP server.

PLANET Networking & Communication			Home Gene Internet Broadt	ral Setup Status Tool Dand Router
 ✓ Status Internet Connection Device Status 	Active DHCP Client	address, MAC address and time expired fo	r each DHCP leased client.	
 System Log Security Log Active DHCP Client Statistics 	IP Address None Refresh	MAC Address 	Time Expired(s) 	

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

PLANET				Home General Setup Status Tool
				Internet Broadband Router
	Statistics 🕖			
 Status Internet Connection Device Status System Log Security Log Active DHCP Client Statistics 	This page shows the p Refresh	acket counters for tran	smission and rec	ception regarding to networks.
		Sent Packets	81	
	Wireless LAN	Received Packets	326	
	Ethernet LAN	Sent Packets	1412	
	Einernei LAN	Received Packets	2277	
	E46	Sent Packets	358	
	Ethernet WAN	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.

PLANET	Home General Setup Status آرما)
Retworking & Communication	Internet Broadband Router
 ✓ Tools ▶ Configuration Tools ▶ Firmware Upgrade ▶ Reset 	Tools Setting The Tools Settings section includes the basic configuration tools, such as Save, Restore Configuration Settings, and Upgrade System Firmware.

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.

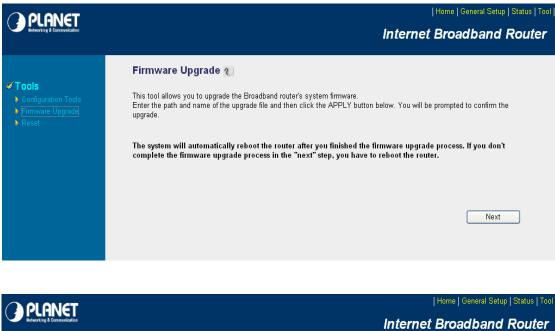
O PLANET	Home General Setup Status Tool
Networking & Communication	Internet Broadband Router
≪ Tools ▶ Configuration Tools ▶ Firmware Upgrade ▶ Reset	Configuration Tools 2 Use the "Backup" tool to save the Broadband router's current configurations to a file named "config.bin". You can then use the "Restore" tool to restore the saved configuration to the Broadband router. Alternatively, you can use the "Restore to Factory Default" tool to force the Broadband router to perform System Reset and restore the original factory settings.
	Backup Settings: Save Restore Settings:) 御覧 Upload Restore to Factory Default: Reset

Parameters	Description
	Use the "Backup" tool to save WNRT-620 current configuration to a file
	named "config.cfg" in your PC. You can then use the "Restore" tool to
Configuration Tools	restore the saved configuration to WNRT-620. The "Restore to Factory
	Defaults" tool can force WNRT-620 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-620 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.



	internet Broadband Router
	Firmware Upgrade 🥡
 Tools Configuration Tools Firmware Upgrade Reset 	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
	This tool allows you to upgrade WNRT-620's system firmware. To upgrade
	the firmware of your Broadband router, you need to download the firmware
Firmware Upgrade	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-620 restart). After the WNRT-620

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.

	Home General Setup Status Tool Internet Broadband Router
Tools Configuration Tools Firmware Upgrade Reset	Reset
Parameters	Description
Reset	In the event that the system stops responding correctly or in some way stops
	functioning, you can perform a reset. Your settings will not be changed. 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-620 restart.

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