NetComm®
www.netcomm.com.au

User Guide

N3G001W
3G Wireless Router

Contents

CHAPTER 1 OVERVIEW

NetComm N3G001W 3G Wireless Router is a high-performance router that supports wireless networking for home, office or public space usage. The NetComm N3G001W 3G Wireless Router supports the use of a 16-bit and 32-bit Type II PC Card, either WCDMS, EV-DO and Even HSDPA which enable you to distribute your 3G Broadband service among multiple computers. It also has a WAN uplink port to connect the N3G001W to an ADSL/Cable modem or existing gateway router. The inclusion of a Wireless Access Point feature will enable you to connect your computer or laptop wirelessly to the internet via the router.

Security is a key issue with Broadband users and NetComm's N3G001W 3G Wireless Router does not leave you exposed. Employing the latest Active Firewall technology, the N3G001W blocks every unauthorized packet of data that comes in ensuring your defenses are rock-solid against hackers, unauthorized entries and probes. What's more, the N3G001W 3G Wireless Router is equipped with a VPN pass-through feature allowing you to use a standard VPN client for Point-to-Point communication even while your firewall is active.

The N3G001W Port Forwarding and UPnP function have made it easier for today's Internet users to configure and setup the myriad of Network Port Rules needed by Internet applications such as On-Line Gaming, Peer-To-Peer file sharing and Messenger services to operate

N3G001W Features

3G Access	1*PC card Type II Slot supports both 16-bit and 32-bit bus rate.
Standards	IEEE 802.11b/g IEEE 802.3 IEEE 802.3u
Firewall	IP Filtering NAT (Network Address Translation) with VPN Pass through MAC Filtering
Supported WAN type	Static IP, Dynamic IP, PPPoE, 3G
Connection Scheme	Connect-on-demand, Auto-Disconnect
NAT function	Class C ;One-to-Many; Max 253 Users; Virtual Server; DMZ Host
VPN	PPTP, L2TP and IPSec Pass Through
Configuration and Management	Web-Based and SNMP DHCP Server and Client
Working Environment	Temperature: 0~40oC, Humidity 10%~90% non-condensing
OS supported	Windows 95/98/ME/NT/2000/XP; Linux
Power	Switching 5V 3.0A
Ports	1 WAN port, 1 LAN port (2xRJ45, 10/100 Base T) DC Power Port
Wireless	
Standard	IEEE 802.11b\g Turbo
Data Rate	54, 48, 36, 24, 18, 12, 9, and 6 Mbps per channel, Auto Fall-Back
Frequency	2.4 – 2.462 GHz, CCK / OFDM modulation
Range Coverage	Tx/Rx power 18dbm/Per Cell indoors approx. 35-100 meters; outdoors up to 100-300 meters
# of Channels	1-11 for N. America (FCC);1-11 for Canada (DOC) 1-13 Europe/Australia (Except Spain and France) (ETSI) 1-14 Japan (TELEC);
Security	64-bit and 128-bit WEP Encryption; WPA Encryption, WPA2 Encryption
Antenna	Detachable Antenna 1.8dBI

Package Contents

Your N3G001W Wireless Router Package contains the following items:

- N3G001W Wireless Router
- Quick Installation Guide
- User Guide on CD
- RJ-45 Straight-through Ethernet Cable
- Cradle Set
- 5V, 3.0A Power Supply Unit.

If any of the above items are damaged or missing, please contact your dealer immediately.

Minimum System Requirements

Before continuing with the installation of your N3G001W Wireless Router, please confirm that you comply with the minimum system requirements.

- A compatible 16-bit or 32-bit PCMCIA 3G modem card with service for 3G Broadband access if you want to use 3G Broadband service.

  Note: Subject to term and condition from your 3G Broadband Internet Service.

- Computer with Windows, Macintosh, or Linux-based operating systems with a working Ethernet adapter with TCP/IP Protocol installed.
- Internet Explorer version 6.0 or Netscape Navigator version 7.0 and above.

Wireless Computer System Requirements

- Computer with a working 802.11b, or 802.11g wireless adapter

LED Indicators

Label	Status	Indicates
M1	Flashing	Flashes when unit is ready
	Off	Power is off
LAN	Flashing	Flashes when data is being sent and received on the LAN connection
	On	Indicates a link to your LAN or Network card is active
	Off	Indicates no link to LAN
WAN	Flashing	Flashes when data is being sent and received on the WAN connection
	On	Indicates that the upstream link to your Modem or router via the WAN port is active
	Off	Indicates no link to WAN
WIFI	Flashing	Indicates that the Wireless link is enable
	Off	Indicates that the Wireless link is disabled

Back Panel Ports

Antenna	To connect to the supplied detachable antenna
WAN	10/100 Base T Ethernet port (RJ-45) uplink port to connect to a modem or router
LAN	10/100 Base T Ethernet port (RJ-45) to connect to Ethernet network card or Ethernet Hub/Switch
Reset	To reset your Wireless Router to factory default settings (All customized settings that you have saved will be lost!)
Power	Connect to the Power Adapter that comes with your package

Restoring Factory Defaults

This feature will reset the Router to its factory default configuration. Occasions may present themselves where you need to restore the factory default settings on your router. Typical situations are:

- You have lost your password and unable to login to the router;
- You have purchased the router from someone else and need to reconfigure the device.
- You are asked to perform a factory reset by a member of the excellent NetComm Support Staff.

In order to restore your router to its factory default settings, please follow these steps:

- Ensure that the router is powered on (for at least 20 seconds).
- Use a paper clip or a pencil tip to depress the reset button for ten seconds and release. At this point, the reset is in progress. Do not power off the unit at this point.
- After the router reboots, the default settings are now restored. This entire process takes several minutes to complete.
- Once you have reset the router to its default settings you will be able to access the device's web configuration using http://192.168.123.254 with password "admin".

Default Settings

LAN (Management)

Static IP Address:	192.168.123.254
Subnet Mask:	255.255.255.0
Default Gateway:	blank

WAN (Internet)

WAN mode:	DHCP

Wireless

SSID:	default
Channel:	11
Security:	none

Modem Access

Username:	admin
Password:	admin

CHAPTER 2 CONNECTING YOUR N3G001W WIRELESS ROUTER

Note: DO NOT connect N3G001W 3G Wireless Router to power before performing the installation steps below.

Step1.

Attach the antenna.

1. Remove the antenna from its plastic wrapper.
2. Screw the antenna in a clockwise direction to the back panel of the unit.
3. Once secured, position the antenna upward at its connecting joint. This will ensure optimal reception.

Step2.

Insert your wireless Type II 3G card (either 16-bit or 32-bit) into the WAN PCMCIA Card Slot.

Note: The N3G001W 3G Wireless Router is designed to work with either UMTS, EV-DO or HSDPA 3G cards that can be used as modems (support tethered data). Please refer to your service provider for detailed feature information.

Step3.

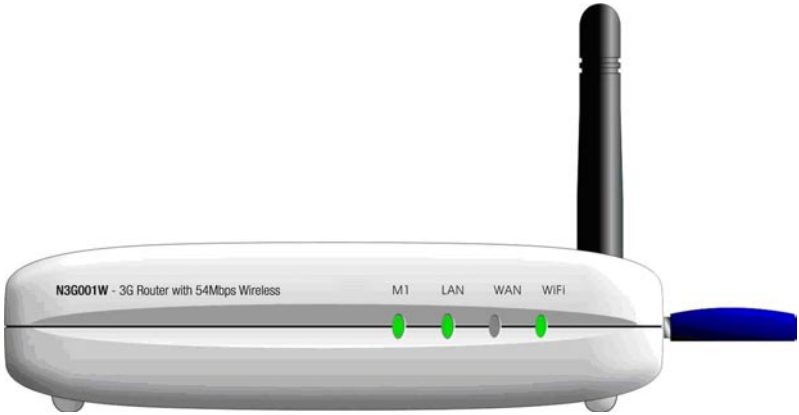
Insert the Ethernet cable into LAN Port on the back panel of the N3G001W 3G Wireless Router, and an available Ethernet port on the network adapter in the computer you will use to configure the unit.

Note: The N3G001W 3G Wireless Router LAN Port is "Auto-MDI/MDIX." This provides Ethernet cable LAN Port access.

Step 4.

1. Connect the power adapter to the port on the back panel of your N3G001W 3G Wireless Router.
2. Then plug the other end of the power adapter into a wall outlet or power strip.

a. The M1 LED will turn ON to indicate that the unit is powered on.
b. Other LEDs will flash ON and OFF as the N3G001W 3G Wireless Router performs initialization and Internet connection processes. This will take a few minutes.
c. When complete, the following LEDs will illuminate green: M1, LAN, and WiFi.



CHAPTER 3 SETTING UP YOUR COMPUTER

Having physically connected your N3G001W, the next step is to configure the router to establish a broadband connection. Depending on your computers current settings you may first need to reconfigure the TCP/IP (Network Settings) to access your 3G Wireless Router.

Follow the instructions for your operating system.

Windows® XP PCs

1. In the Windows task bar, click the **Start** button, and then click **Control Panel**.
2. Click on **Network & Internet Connections** icon. (Category mode only).
3. Click the **Network Connections** icon.
4. In the **LAN** or **High-Speed Internet** window, right-click on the icon corresponding to your network interface card (NIC) and select **Properties**. (Often, this icon is labeled Local Area Connection).
5. The **Local Area Connection** dialog box displays with a list of currently installed network items. Ensure that the check box to the left of the item labeled **Internet Protocol (TCP/IP)** is checked. Select **Internet Protocol TCP/IP** and click on **Properties**.
6. In the **Internet Protocol (TCP/IP) Properties** dialog box, click the radio button labeled **Obtain an IP address automatically**. Also click the radio button labeled **Obtain DNS server address automatically**.
7. Click **OK** twice to confirm your changes, and close the **Control Panel**.

Windows 2000 PCs

First, check for the IP protocol and, if necessary, install it:

1. In the Windows task bar, click the **Start** button, point to **Settings**, and then click **Control Panel**.
2. Double-click the **Network and Dial-up Connections** icon.
3. In the **Network and Dial-up Connections** window, right-click the **Local Area Connection** icon, and then select **Properties**.
4. In the **Local Area Connection** Properties dialog box, select **Internet Protocol (TCP/IP)**, and then click **Properties**
5. In the **Internet Protocol (TCP/IP) Properties** dialog box, click the radio button labeled **Obtain an IP address automatically**. Also click the radio button labeled **Obtain DNS server address automatically**.
6. Click **OK** twice to confirm and save your changes, and then close the **Control Panel**.

Windows Me PCs

1. In the Windows task bar, click the **Start** button, point to **Settings**, and then click **Control Panel**.
2. Click on **View All Control Panel Options**.
3. Double-click the **Network** icon.
4. The **Network Properties** dialog box displays with a list of currently installed network components. If the list includes **Internet Protocol (TCP/IP)**, then the protocol has already been enabled. Skip to step 10.
5. If **Internet Protocol (TCP/IP)** does not display as an installed component, click **Add**…
6. In the **Select Network Component Type** dialog box, select **Protocol**, and then click **Add**…
7. Select **Microsoft** in the **Manufacturers** box.
8. Select **Internet Protocol (TCP/IP)** in the **Network Protocols** list, and then click **OK**. You may be prompted to install files from your Windows ME installation CD or other media. Follow the instructions to install the files. If prompted, click **OK** to restart your computer with the new settings.

Next, configure the PC to accept IP information assigned by the modem:

9. Follow steps 1 - 3 above.
10. In the **Network Properties** dialog box, select **TCP/IP**, and then click **Properties**. If you have multiple TCP/IP listings, select the listing associated with your network card or adapter.
11. In the **TCP/IP Settings** dialog box, click the radio button labeled **Obtain an IP address automatically**.
12. Click **OK** twice to confirm and save your changes, and then close the **Control Panel**.

Windows 95, 98 PCs

First, check for the IP protocol and, if necessary, install it:

1. In the Windows task bar, click the **Start** button, point to **Settings**, and then click **Control Panel**.
2. Double-click the **Network** icon.
3. The **Network** dialog box displays with a list of currently installed network components. If the list includes **TCP/IP**, and then the protocol has already been enabled. Skip to step 9.
4. If **TCP/IP** does not display as an installed component, click **Add**… The **Select Network Component Type** dialog box displays.
5. Select **Protocol**, and then click **Add**… The **Select Network Protocol** dialog box displays.
6. Click on **Microsoft** in the **Manufacturers** list box, and then click **TCP/IP** in the **Network Protocols** list box.
7. Click **OK** to return to the **Network** dialog box, and then click **OK** again. You may be prompted to install files from your Windows 95/98 installation CD.Follow the instructions to install the files.
8. Click **OK** to restart the PC and complete the TCP/IP installation.

Next, configure the PCs to accept IP information assigned by the Modem:

9. Follow steps 1 - 3 above.
10. Select the network component labeled **TCP/IP,** and then click **Properties**. If you have multiple TCP/IP listings, select the listing associated with your network card or adapter.
11. In the **TCP/IP Properties** dialog box, click the **IP Address** tab.
12. Click the radio button labeled **Obtain an IP address automatically**.
13. Click **OK** twice to confirm and save your changes. You will be prompted to restart Windows.
14. Click **Yes**.

Windows Vista

1. In the Windows task bar, click on **Start** and then click **Control Panel**.
2. Click on **Network and Sharing Center**.
3. Click on **Manage Network Connection** on the left menu.
4. Right click on **Local Area Connection** and click on **Properties**
5. The **Local Area Connection** dialog box will display a list of currently installed network items. Ensure that the check box to the left of the item labeled **Internet Protocol Version 4 (TCP/IPv4)** is checked. Select **Internet Protocol Version 4 (TCP/IPv4)** and click on **Properties**.
6. In the **Internet Protocol Version 4 (TCP/IPv4) properties** dialog box, click the radio button labeled **Obtain an IP address automatically**. Also click the radio button labeled **Obtain DNS server address automatically**.
7. Click **OK** twice to confirm your changes and close the **Control Panel**.

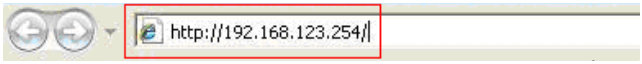
Mac OSX 10.4

1. Click the **Apple** icon and choose **System Preferences**.
2. Click on **Network** icon.
3. Set **Location** to **Automatic** and **Show** to **Built In Ethernet**.
4. Click on **TCP/IP** tab.
5. In the **Configure** option, choose **Use DHCP with automatic address**.
6. Click on **Apply Now**.

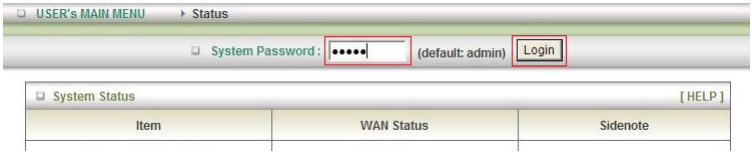
CHAPTER 4 USING THE N3G001W WEB CONFIGURATION WIZARD

Please follow the steps below to configure your N3G001W router via the web configuration wizard utility.

1. Open your web browser (e.g. Internet Explorer/Firefox/Safari) and navigate to **http://192.168.123.254/**

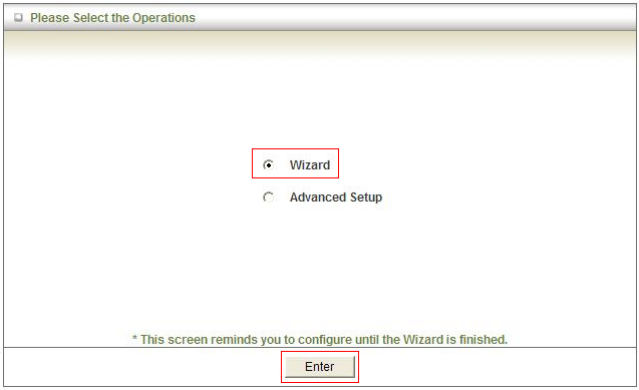


2. At the login screen, type in "**admin**" (without quotes) in the **System Password** field. Then click on **Login**.

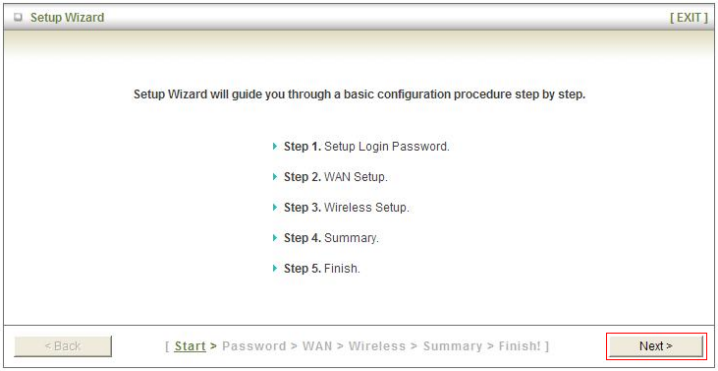


Notes: admin is the default login password for the unit.

3. Click on **Wizard** and then on **Enter**.



4. This page shows you the steps needed to configure your N3G001W unit. Click **Next** to continue.



5. This page allows you to change the web configuration login password. To change the password, enter the old password (default is "**admin**") and enter the new password. You also need to enter the new password in the **Reconfirm** field. Then click **Next**. Or click **Next** without entering any details to keep the default password.

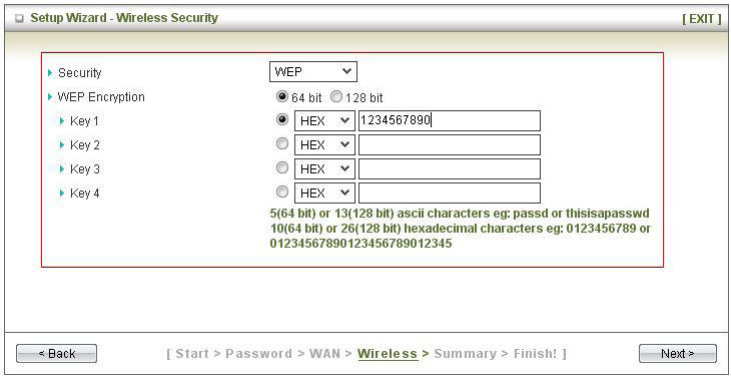
Note: if you change the password, please make sure that you use the new password the next time you log into the web configuration.

6. Select the type of WAN connection that you want to use and click on Next.

Notes: To use a 3G card, please choose "3G card". For connection to an existing modem/router choose "WAN Ethernet port", please refer to Chapter 5 - Advance settings on page 21 for more details.

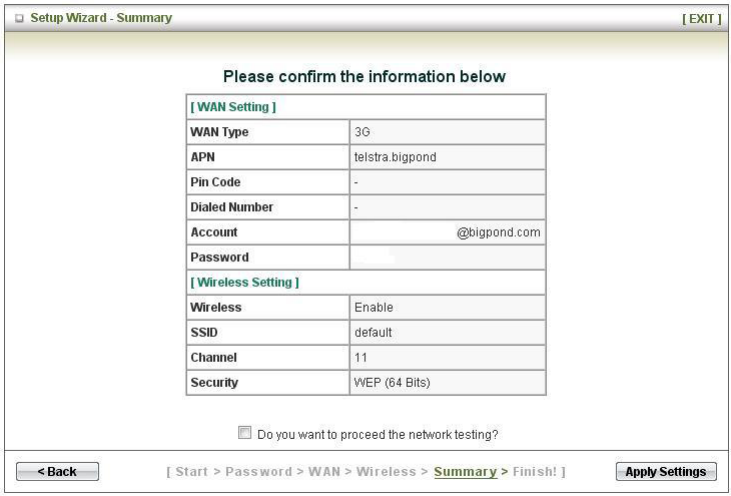
8. This page allows you to disable the wireless functionality, change the wireless network name (SSID) and change the wireless channel. Click Next once you finished.

9. It is strongly recommended that you now set up simple wireless security such as WEP 64bit or WPA (if your wireless client supports WPA). In order to secure your network. Select your required wireless security and click on Next.



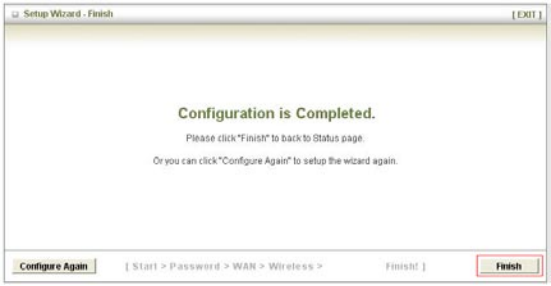
Notes: Please refer to page 26 for more information regarding wireless security and how to utilize wireless security on your network. This example shows WEP 64 bit encryption with key "1234567890"

10. Please review the settings and click on Apply Settings to save them. You can also click Back if there is a error.



Notes: To let the wizard run a network testing please tick on Do you want to proceed the network testing?

11. After several minutes the N3G001W will save all the settings and the wizard is complete. Click **Finish** to go back to the Status page and the unit will now use the new settings.



12. If everything is configured properly, the System Status page will show that your 3G service is online and the WAN IP address that has been assigned.

System Status [HELP]

Item	WAN Status	Sidenote
IP Address	124.176.244.247	3G
Subnet Mask	255.255.255.255	
Gateway	10.64.64.64	
Domain Name Server	61.9.134.49, 61.9.226.33	

Wireless Status

Item	WLAN Status	Sidenote
Wireless mode	Enable	(AP only mode)
SSID	default	
Channel	Auto	
Security	WEP	(64 Bits WEP)
MAC Address	00-60-64-17-F2-00	

3G/3.5G Modem Information

Item	Status	Sidenote
Card Info	3.3V CardBus card	
Link Status	Connected	
Signal Strength	Excellent(22)	0~9:Bad 10~19:Good 20~31:Excellent

Statistics Information

Statistics of WAN	Inbound	Outbound
Octects	136	124
Unicast Packets	7	7
Non-unicast Packets	0	0
Drops	0	0
Error	0	0

View Log... Clients List... Refresh

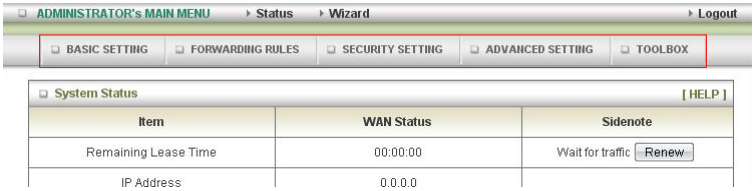
Display time: Tue Jul 10 21:06:42 2007

CHAPTER 5 ADVANCED SETUP

To access the Advanced Setup option of your N3G001W, you need to access the unit's web configuration outline on page 16 and click on Advanced Setup menu at the top of the page.

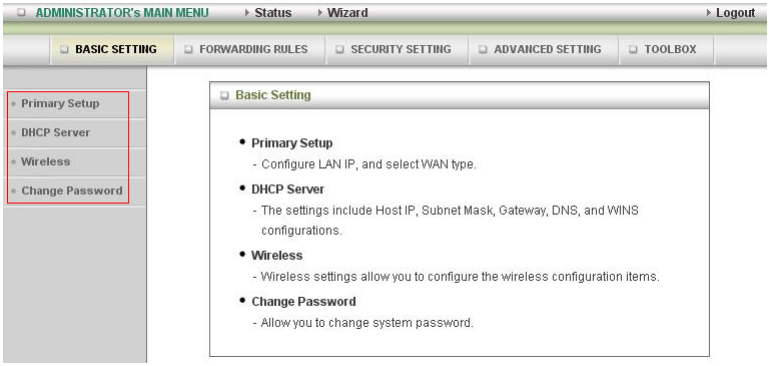
For first time installation, you will be presented with the following page. Choose Advanced Setup and click Enter to access the Advanced Setup page.

After that, click on any of the top menu to access the respective setting pages.



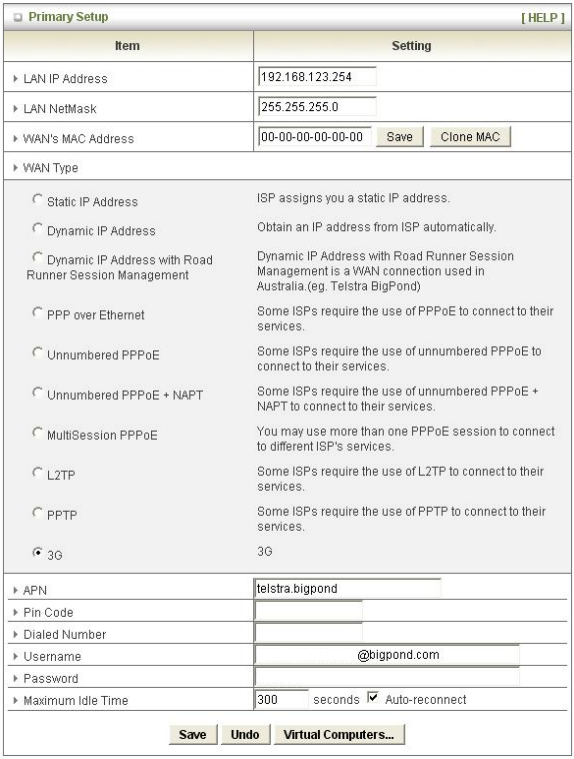
Basic Setting

The Basic Setting page allows you to configure a number of basic settings on the unit. This section deals with these features. Click on any of the menu on the left to configure the respective setting page.



Basic Setting > Primary Setup

This Page allows you to change the LAN (Local Area Network) settings on your N3G001W wireless router and the WAN (Wide Area Network) connection.



Notes: This example shows WAN connection configuration for Bigpond Next G connection.

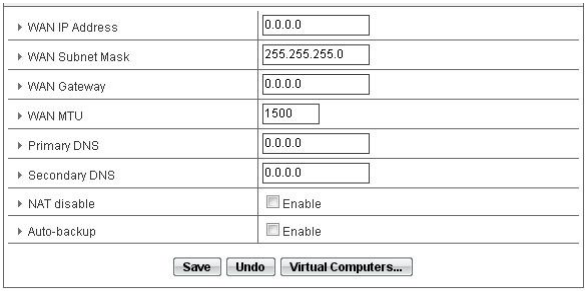
1. LAN IP Address: the local IP address of this device.
2. LAN Netmask: the Netmask of the local IP address
3. WAN's MAC Address: The WAN's MAC of this device. If you want to clone the MAC address from your computer network card, just click the Clone MAC and click Save.
4. WAN Type: WAN connection type of your ISP. Each WAN type will give you the option to enter the required information. You can select one of the following options.
   a. Static IP Address. For connection with static IP address.
   b. Dynamic IP Address. For connection with dynamic IP address. Mostly used when the N3G001W unit is in use in conjunction with another modem/router.
   c. Dynamic IP Address with Road Runner Session Management. When using the N3G001W with Telstra Bigpond Cable service.
   d. PPP over Ethernet. For connection with PPPoE service. Mostly used when the N3G001W unit is connected to a Bridge ADSL modem.
   e. Unnumbered PPPoE. For connection with unnumbered PPPoE service.

f. Unnumbered PPPoE + NAPT. For connection with unnumbered PPPoE service with NAPT enabled.
g. MultiSession PPPoE. For ISP with multi session PPPoE.
h. L2TP. For connection with L2TP service.
i. PPTP. For connection with PPTP service.
j. 3G. For connection with 3G service.

Notes: All of the connection types above are used in conjunction with a modem or another router connected to the WAN port except for 3G which needs a 3G PC Card installed. Static IP Address, Dynamic IP address, Dynamic IP Address with Road Runner Session Management and PPP over Ethernet has an Enable Backup option to set it as the primary connection and the 3G card as the backup connection.

Static IP Address

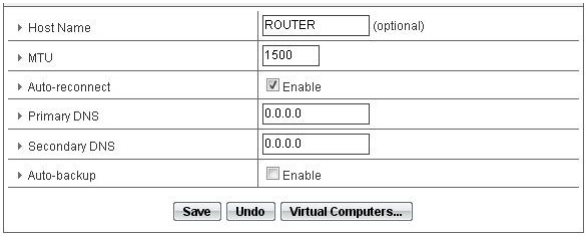
If your WAN connection uses static IP address, please select Static IP Address and fill in the required information in the fields provided.



- WAN IP Address. Type in the IP address assign by your Internet Service Provider.
- Subnet Mask. Type in the Subnetmask assign by your Internet Service Provider.
- WAN Gateway. Type in the WAN Gateway assign by your Internet Service Provider.
- WAN MTU. Leave as default unless instructed by your Internet Service Provider.
- Primary DNS/Secondary DNS. Type in the DNS address assign by your Internet Service Provider.
- NAT Disable. Tick Enable to disable NAT.
- Auto-backup. Tick Enable to make the 3G connection as a backup connection.

Dynamic IP Address

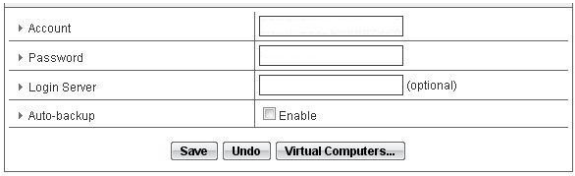
This connection will get the IP address from the internet service provider. Choose this connection if you are connecting the router to an Optus Cable Modem service.



Leave everything as default unless instructed by your Internet Service Provider and tick Enable Auto-backup to enable the 3G auto back up function.

Dynamic IP Address with Road Runner Session Management

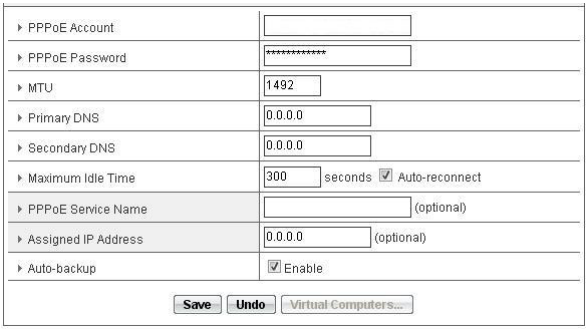
This connection will get the IP address from the internet service provider. Choose this connection if you are connecting the router to a Telstra Bigpond Cable modem.



- Account. Type in your Account username.
- Password. Type in your account password.
- Login Server (Optional). Type in the login server of the Roadrunner service.
- Auto Backup. Tick Enable to make the 3G connection as a backup connection.

PPP over Ethernet

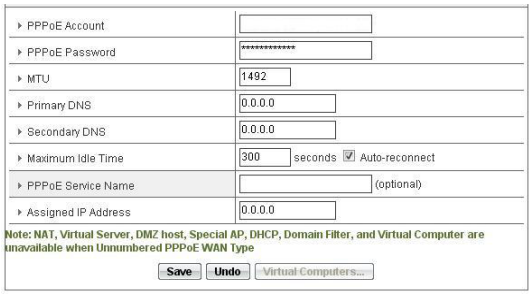
Most ADSL service will use PPP over Ethernet protocol. Use this if you connect the router to a bridge ADSL modem.



- PPPoE Account/ PPPoE Password. Type in your account username and password.
- MTU. Leave as default unless instructed by your Internet Service Provider.
- Primary DNS/Secondary DNS. Primary DNS/Secondary DNS. Type in the DNS address assign by your Internet Service Provider. Optional.
- Maximum Idle Time. Enter the number of second you want to have elapsed without any activity before your Internet connection terminates automatically. Set to 0 to disable.
- Auto-reconnect- Tick to enable auto reconnect function.
- PPPoE Service Name (Optional). Type in the PPPoE service name assigned by your Internet Service Provider.
- Assigned IP Address (Optional). Type in the IP address assigned by your Internet Service Provider.
- Auto Backup. Tick Enable to make the 3G connection as a backup connection.

Unnumbered PPPoE

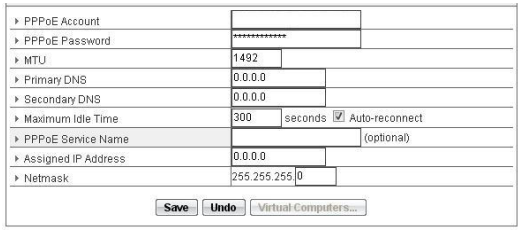
Choose this protocol for connection with unnumbered PPPoE service.



- PPPoE Account/ PPPoE Password. Type in your account username and password.
- MTU. Leave as default unless instructed by your Internet Service Provider.
- Primary DNS/Secondary DNS. Primary DNS/Secondary DNS. Type in the DNS address assign by your Internet Service Provider. Optional.
- Maximum Idle Time. Enter the number of second you want to have elapsed without any activity before your Internet connection terminates automatically. Set to 0 to disable.
- Auto-reconnect- Tick to enable auto reconnect function.
- PPPoE Service Name (Optional). Type in the PPPoE service name assigned by your Internet Service Provider.
- Assigned IP Address (Optional). Type in the IP address assigned by your Internet Service Provider.

Unnumbered PPPoE + NAPT

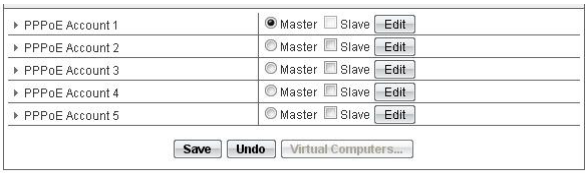
Choose this protocol for unnumbered PPPoE service with NAPT enabled.



- PPPoE Account/ PPPoE Password. Type in your account username and password.
- MTU. Leave as default unless instructed by your Internet Service Provider.
- Primary DNS/Secondary DNS. Primary DNS/Secondary DNS. Type in the DNS address assign by your Internet Service Provider. Optional.
- Maximum Idle Time. Enter the number of second you want to have elapsed without any activity before your Internet connection terminates automatically. Set to 0 to disable.
- Auto-reconnect- Tick to enable auto reconnect function.
- PPPoE Service Name (Optional). Type in the PPPoE service name assigned by your Internet Service Provider.
- Assigned IP Address (Optional). Type in the IP address assigned by your Internet Service Provider.
- Netmask. Type in the Netmask address assign by your provider.

Multisession PPPoE

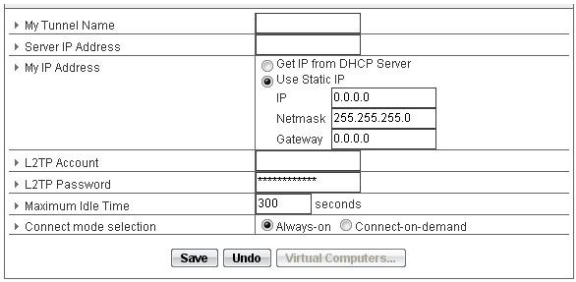
For creating more than one PPPoE session to connect to different Internet Service Provider services.



Press Edit button to enter the PPPoE information for the respective account. You can only have one master account but with multiple slave account.

L2TP

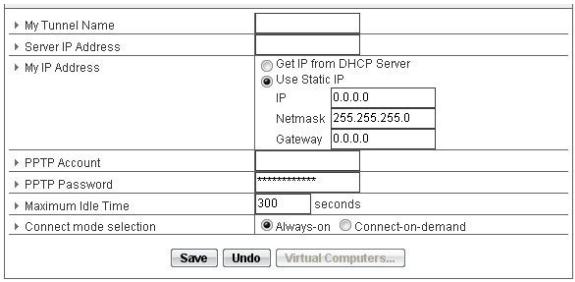
For internet service using L2TP.



- My Tunnel Name. Type in the Tunnel Name assign by your Internet Service Provider.
- Server IP address. Type in the server IP address assign by your Internet Service Provider.
- My IP Address. Tick Get IP from DHCP Server if your service use DHCP server. Or tick on Use Static IP and type in the IP address assign by your Internet Service Provider.
- L2TP Account / L2TP Password. Type in the username and password assign by your provider.
- Maximum Idle Time. Enter the number of second you want to have elapsed without any activity before your Internet connection terminates automatically. Set to 0 to disable.
- Connect mode selection. Tick on Always-on for always on connection.

PPTP

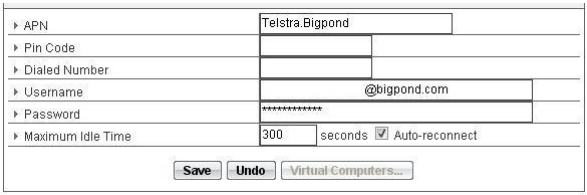
For internet service using PPTP.



- My Tunnel Name. Type in the Tunnel Name assign by your Internet Service Provider.
- Server IP address. Type in the server IP address assign by your Internet Service Provider.
- My IP Address. Tick Get IP from DHCP Server if your service use DHCP server. Or tick on Use Static IP and type in the IP address assign by your Internet Service Provider.
- PPTP Account / PPTP Password. Type in the username and password assign by your provider.
- Maximum Idle Time. Enter the number of second you want to have elapsed without any activity before your Internet connection terminates automatically. Set to 0 to disable.
- Connect mode selection. Tick on Always-on for always on connection.

3G

For 3G service, you need to enter the following information, please refer to your 3G service provider for detail information.



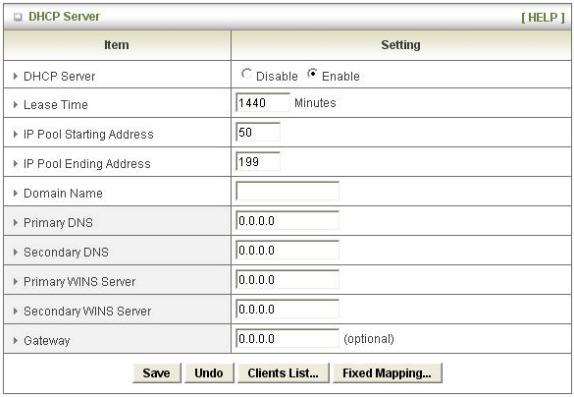
- APN- Enter the APN for your PC card.
- Pin Code- Enter the Pin Code for your SIM card
- Dial-Number- This field should not be altered except when required by your service provider.
- User Name- Enter your 3G username.
- Password- Enter your 3G password.
- Maximum Idle Time- Enter the number of second you want to have elapsed without any activity before your Internet connection terminates automatically. Set to 0 to disable.
- Auto-reconnect- Tick to enable auto reconnect function.

Caution for 3G WAN connection: The 3G connection fields may not be necessary for your connection. The information on this page will only be used when your service provider requires you to enter a User Name and Password to connect to the 3G network.

Click Save to save the settings or Undo to cancel.

Basic Setting > DHCP Server

This page allows you to configure the DHCP Server on the unit.



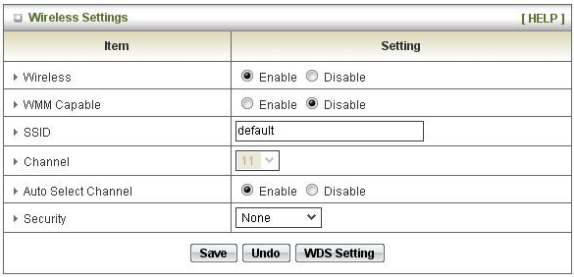
For more settings click on More.

1. DHCP Server: Please leave Enable unless you have another DHCP server on the same network.
2. Lease Time: DHCP lease time to the DHCP client.
3. IP Pool Starting/Ending Address: You must specify the starting / ending address of the IP address pool. Please leave as default unless necessary.
4. Domain: Optional.
5. Primary DNS/Secondary DNS: Optional, This feature allows you to manually assign a DNS Servers
6. Primary WINS/Secondary WINS: Optional, This feature allows you to manually assign a WINS Servers
7. Gateway: Optional. The IP Address of an alternate Gateway. This function enables you to assign another gateway to your PC from the DHCP server.

Click Save to save the settings or Undo to cancel. You can also check the DHCP client list by pressing the Client List button. Fixed Mapping button will bring you to the Security Setting > MAC Control page.

Basic Setting > Wireless

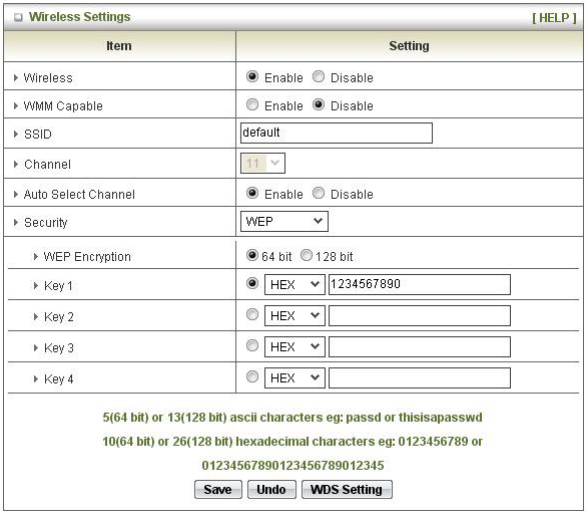
This page allows you to configure the wireless feature of the unit such as SSID and security.



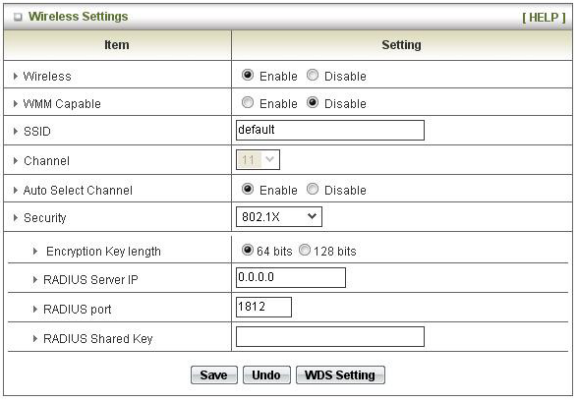
1. Wireless - Enable by default. Changing this option to Disable will turn off the wireless feature on the unit and you will not be able to connect wirelessly.
2. WMM Capable- Choose Enable or Disable WMM function. WMM stands for Wi-Fi Multimedia that provides features that improve the user experience for audio, video and voice applications over Wi-Fi networks.
3. SSID- Service Set Identifier (SSID) is the name designated for the wireless network of the unit. The default SSID is default. This SSID can be easily changed to rename the wireless network. (Note: SSID names may contain up to 32 ASCII characters)
4. Channel- can be from 1 to 13 and 11 is the default channel. Devices on the network that wants to connect to the unit must use the same channel. (Note: Most wireless adapter will automatically scan and match the wireless channel). Changing this option might improve the wireless signal quality. However, please only use channel 1 to 11 as certain wireless adapter does not work on channel 12 and 13.
5. Auto Select Channel – Choose Enable to let the router decides the best channel to use. Disable to choose manually.

6. Security- You may choose from the following option, No Encryption, WEP.802.1x, WPA-PSK, WPA, WPA2-PSK, or WPA2. By default the N3G001W uses No Encryption (as shown in the screen above). Other option that you can use are explained as follow:

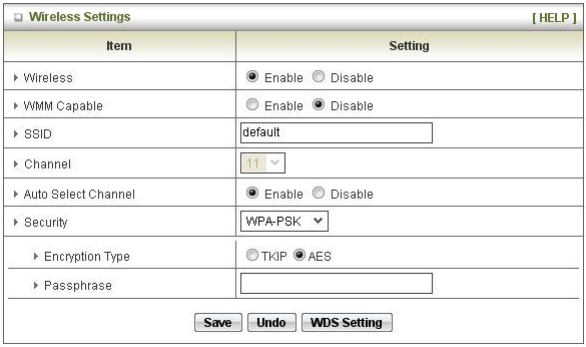
   a) WEP (Wired Equivalent Privacy). Enabling this security will protect your data while it is transferred from the computer to the N3G001W router. Select the WEP Encryption (64bit or 128bit) and enter the WEP key in Key 1 field. Please note that WEP Encryption key can only use numbers from 0 to 9 and letters from A to F. 64 bit encryption needs 10 digits key and 128 bit encryption needs 26 digits key.



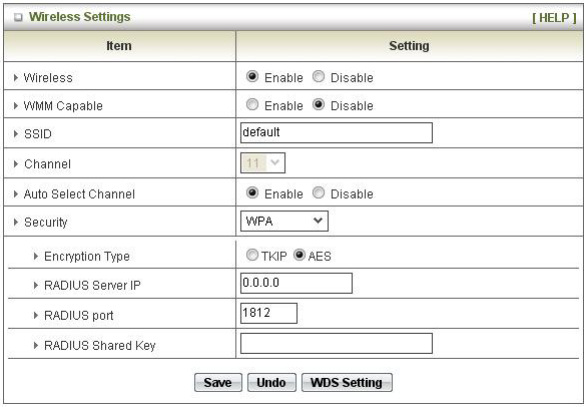
   b) 802.1X: In order to use 802.1X security, you need to have a RADIUS server on your network that will act as the authentication server. Please type in the details for your RADIUS server in the fields required.



c) WPA-PSK/WPA2-PSK : A newer type of security is WPA-PSK-TKIP and WPA-PSK2-ADE. This type of security gives a more secure network compare to WEP. Use TKIP Encryption Type for WPA-PSK and AES for WPA2-PSK. After that, please enter the key in the Passphrase field. The key needs to be more then 8 characters and less then 63 characters and it can be any combination of letters and numbers. Please note that the configuration for WPA-PSK and WPA2-PSK is identical



d) WPA/WPA2 : Similar to 802.1X security but with TKIP or AES Encryption. You need to have a RADIUS server on the network to perform user authentication. Please type in the details for your RADIUS server in the fields required.

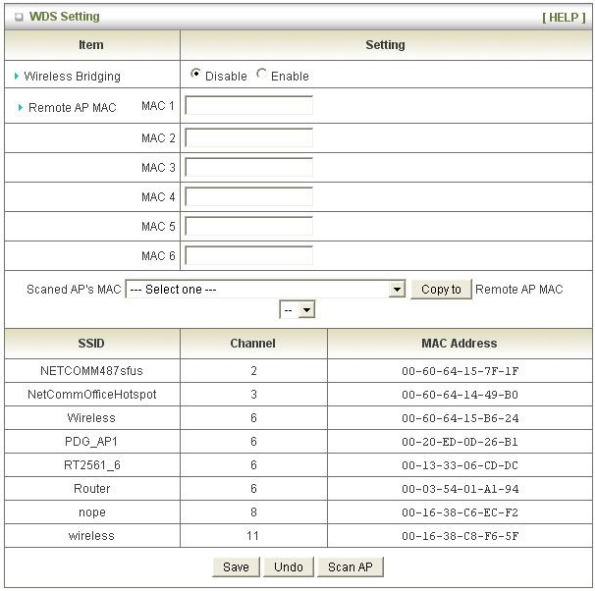


Notes: After configuring wireless security, you also need to configure your wireless adapter to use the same security settings before you can connect wirelessly. Not all wireless adapter supports WPA-PSK/WPA2-PSK/WPA/WPA2 security, please refer to your wireless adapter user guide for more details.

It is strongly recommended to set up a simple wireless security such as WEP 64bit or WPA (when the wireless client supports WPA) in order to secure your network.

Click Save to save the settings and Undo to cancel.

To Configure WDS (Wireless Distribution System) click on WDS Setting button and you will be presented with the following page.



WDS is used to wirelessly connect multiple Access Points (in WDS mode), and in doing so extend the wireless infrastructure to locations where cabling is not possible or inefficient to implement.

Notes: Be sure you understand the purpose of WDS mode before continuing with the configuration. And not all Access Point can be use in WDS mode.

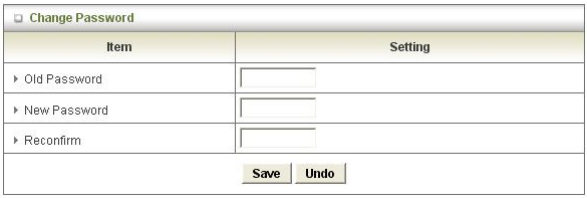
To enable WDS please make sure to tick the Enable tick box for Wireless Bridging.

And then type in the MAC address of the remote WDS unit in the Remote AP MAC list. Or you can copy the one from the Scanned AP's MAC list. This router can accommodate up to 6 remote MAC addresses.

Click Save to save the settings and Undo to cancel.

Basic Setting > Change Password

On this page you can change the N3G001W web configuration password. Please type in your old password (factory default password is admin) and type in the new password. You also need to type in the new password in the Reconfirm field.

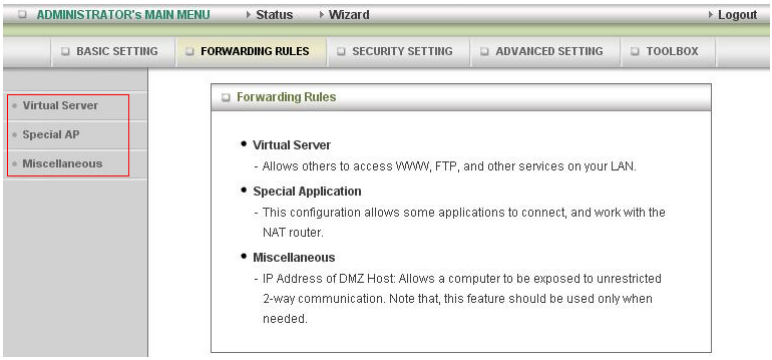


Note: if you change the password, please make sure that you use the new password the next time you log into the web configuration.

Click Save to save the settings and Undo to cancel.

Forwarding Rules

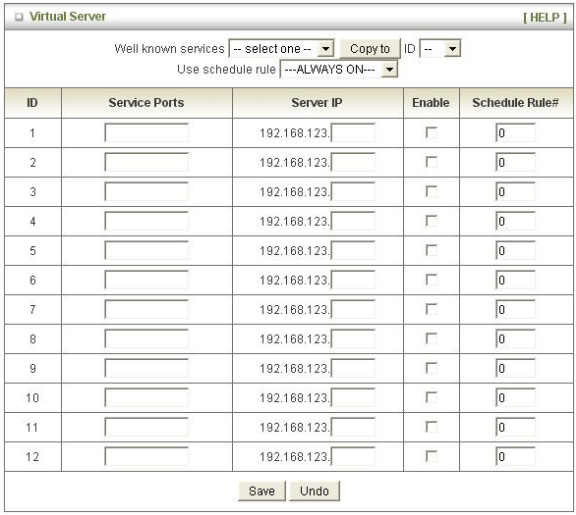
The Forwarding Rules page allows you to configure the port forwarding management on the unit. Click on any of the menu on the left to access the respective setting page.



Forwarding rules is a necessary feature because NAT (Network Address Translation) always block incoming traffic from the Internet to the LAN if a specific port mapping does not exists in the NAT translation table. Because of this, the NAT provides a level of protection for computers that are connected to your LAN. However, this also creates a connectivity problem when you want to make LAN resources available to Internet clients, which you may want to do to play network games or host network applications.

There are three ways to work around NAT and to enable certain LAN resources available from the Internet; Port Forwarding (in Virtual Server page), Port Triggering (in Special AP page) and DMZ Host (in Miscellaneous page).

Forwarding Rules > Virtual Server



A virtual server is defined as a Service Port, and all requests to this port will be redirected to the computer specified by the Server IP. Virtual Server can also work with Scheduling Rules, and give user more flexibility on Access control. For detail instruction on scheduling rules, please refer to Advanced Setting > Scheduling.

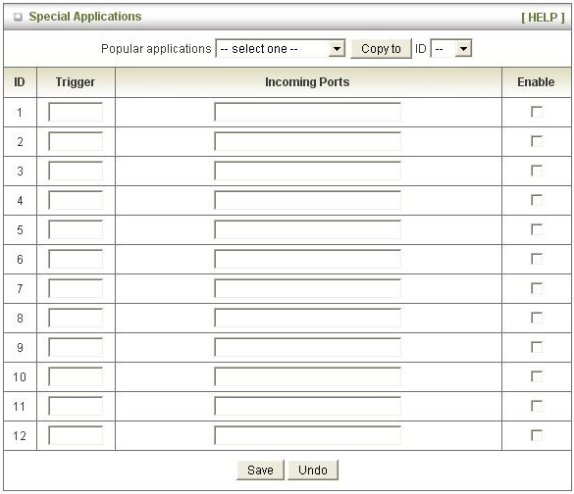
For example, if you have an FTP server (default port is port 21) at 192.168.123.1, a Web server (default port is port 80) at 192.168.123.2, and a VPN server (default port is port 1723) at 192.168.123.6, then you need to specify the following virtual server mapping table:

Service Port	Server IP	Enable
21	192.168.123.1	Ticked
80	192.168.123.2	Ticked
1723	192.168.123.6	Ticked

Note: At any given time, only one IP address can be bind to a particular Service Port.

Click Save to save the settings and Undo to cancel.

Forwarding Rules > Special AP



Some applications like On-line games, Video conferencing and Internet telephony require multiple connections to the internet. Because of that, these applications cannot work with a pure NAT router such as the N3G001W. The Special Applications feature allows some of these applications to work with this router. If this fails to make the application working, try to set up that computer as the DMZ host instead. Please refer to Forwarding Rules > Miscellaneous section.

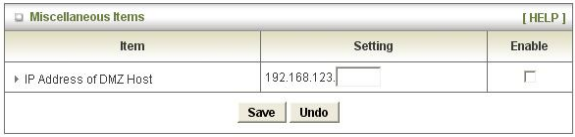
The fields are explained as follow:

1. Trigger: the outbound port number that will be triggered by the application..
2. Incoming Ports: when the trigger packet is detected, the inbound packets sent to the specified port numbers will be allowed to pass through the firewall.

The N3G001W also provides predefined settings for some popular application. To use the predefine settings, select your application from the Popular application list, select an unused ID from the list and then click Copy to. After that the predefined setting will be added to the list.

Click Save to save the settings and Undo to cancel.

Forwarding Rules > Miscellaneous



DMZ (Demilitarized Zone) Host is a computer without the protection of firewall. It allows that particular computer to be exposed to unrestricted 2-way communication to the internet. It is mostly used for Internet games, Video conferencing, Internet telephony and other special applications.

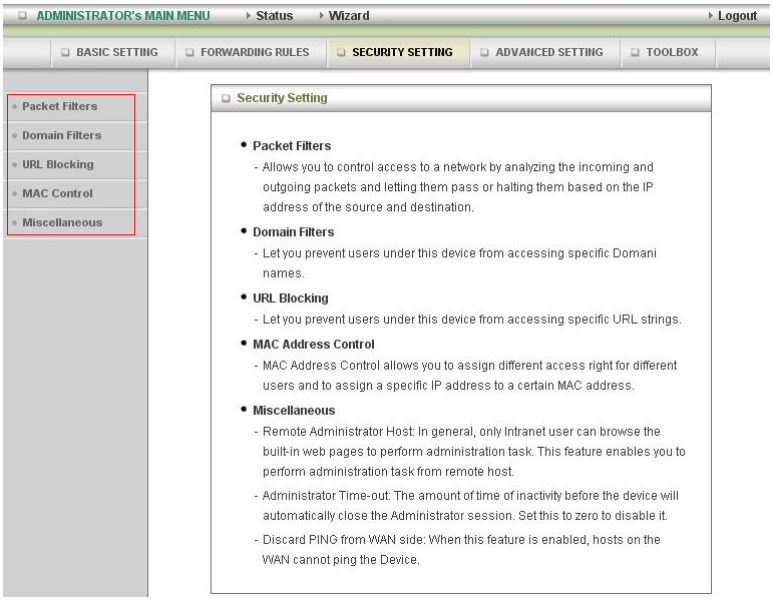
To enable DMZ, enter the IP address of the PC and tick on Enable.

Note: This feature should be used only when necessary.

Click Save to save the settings and Undo to cancel.

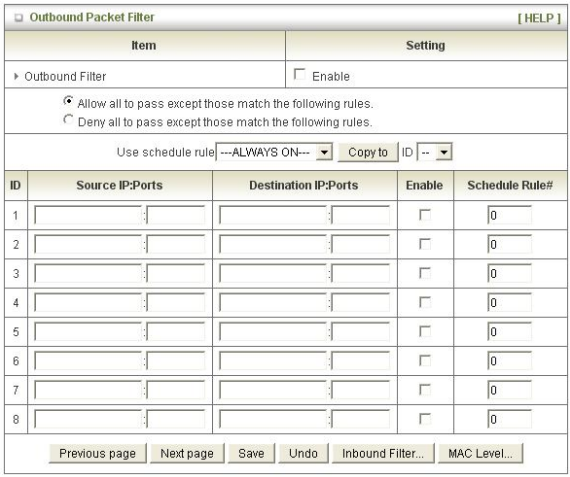
Security Setting

The Security Setting page allows you to configure the security management on the unit such as Packet filters and MAC Control. Click on any of the menu on the left to access the respective setting page.



Security Setting > Packet Filters

Packet Filter enables you to control what packets are allowed to pass through the router. There are two type of packet filter, Outbound Packet Filter which applies to all outbound packets and Inbound Packet Filter which only applies to packets that destined to Virtual Server or DMZ host only.



To enable Outbound Filter, please make sure to tick the Enable tick box on the top of the page.

There are two type of filtering policies:

1. Allow all to data traffic to pass except those match the specified rules.
2. Deny all to data traffic to pass except those match the specified rules.

For each direction, you can specify up to 48 rules. And for each rule you need to define the following:

- Source IP address
- Source port
- Destination IP address
- Destination port
- Protocol: TCP or UDP or both.
- Use Schedule Rule#

For source or destination IP address, you can define a single IP address (192.168.123.1) or a range of IP addresses (192.168.123.100-192.168.123.200). Empty fields imply all IP addresses.

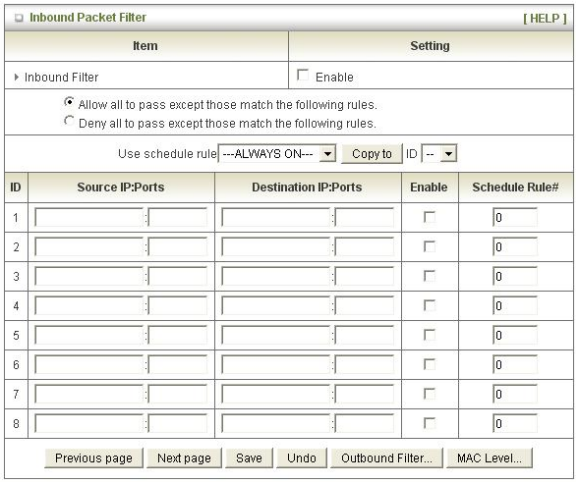
For source or destination port, you can also define a single port (80) or a range of ports (1000-1999). And you need to add prefix “T” or “U” to specify TCP or UDP protocol e.g. T80, U53, U2000-2999. No prefix indicates both TCP and UDP are defined. An empty implies all port addresses.

Packet Filter also works with Scheduling Rules, and gives user more flexibility on Access control. For detail instruction regarding scheduling rule, please refer to Advanced Setting > Scheduling.

Click Save to save the settings and Undo to cancel.

Inbound Filter:

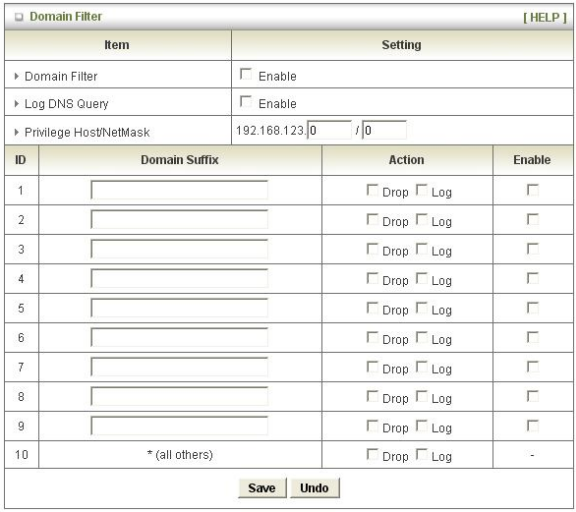
To access the Inbound Packet Filter page, click on Inbound Filter on the bottom of the Outbound Filter page. All the settings on this page are similar to the one for Outbound Filter.



Click Save to save the settings and Undo to cancel.

Security Setting > Domain Filters

Domain Filters enable you to prevent users from accessing specific domain address.



To enable Domain Filter please make sure to tick the Enable tick box on the top of the page.

Log DNS Query. Please tick the Enable tick box if you want to log the action when someone accesses the specific URLs.

Privilege Host/Netmask. To set a group of computer that has privilege to access the internet without any restriction.

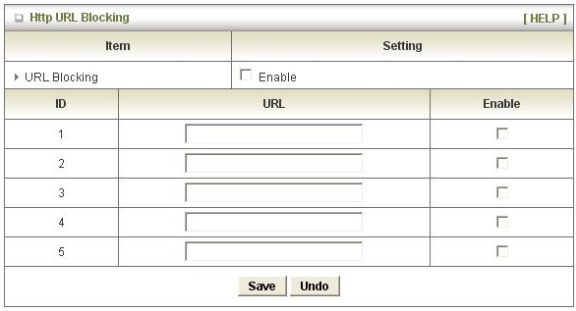
To set a Domain Filter, you need to specify the following:

- Domain Suffix. Please type the suffix of the URL that needs to be restricted. For example, ".com", "xxx.com".
- Action. The router action that you want when someone is accessing a URL that met the domain suffix. Tick on Drop to block the access and/or tick on Log to log this access.
- Enable. Tick to enable the rule.

Click Save to save the settings and Undo to cancel.

Security Setting > URL Blocking

URL Blocking will block LAN computers from connecting to a pre-defined websites. The major difference between Domain Filter and URL Blocking is that Domain Filter require user to input suffix (e.g. xxx.com, yyy.net) while URL Blocking only requires user to input a keyword.



To enable URL Blocking please make sure to tick on Enable tick box on the top of the page.

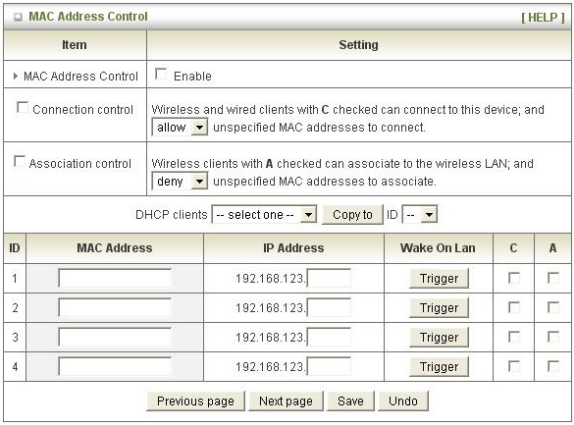
To set a URL Blocking rule, you need to specify the following:

- URL. If any part of the Website's URL matches the pre-defined word then the connection will be blocked. For example, you can use pre-defined word "sex" to block all websites if their URLs contain pre-defined word "sex".
- Enable. Tick to enable the rule.

Click Save to save the settings and Undo to cancel.

Security Setting > MAC Control

MAC Control allows you to assign different access right for different users and to assign a specific IP address to a certain MAC address.



To enable MAC Address Control please make sure to tick on Enable tick box on the top of the page.

Two types of control are available:

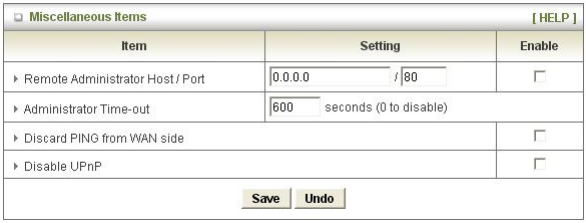
- Connection control. Check Connection Control to control which clients (wired and wireless) can connect to the unit. If a client is denied to connect to this device, it means the client can not access to the Internet either. Choose allow or deny to allow or deny clients with MAC address that are not in the list to connect to this device.
- Association control. Check Association Control to control which wireless client can associate with the unit. If a client is denied to associate to the unit, it means the client can not send or receive any data via this device. Choose allow or deny to allow or deny the clients with MAC addresses that are not in the list to associate to the wireless LAN

Click Next Page or Previous Page to see the entire list.

Click Save to save the settings and Undo to cancel.

Security Setting > Miscellaneous

This page allows you to change various miscellaneous security settings on the unit.



These settings are:

1. Remote Administrator Host/Port. By default, only user on the LAN side can browse the unit web configuration page to perform administration task. Enabling this feature will allow you to connect to the web configuration from the internet. If the specified Host address is 0.0.0.0, any computer on the internet can connect to the unit web configuration page. For better security, you can specify just one IP address or even use subnet mask bits "/nn" notation to specified a group of trusted IP addresses for example, "10.1.2.0/24".

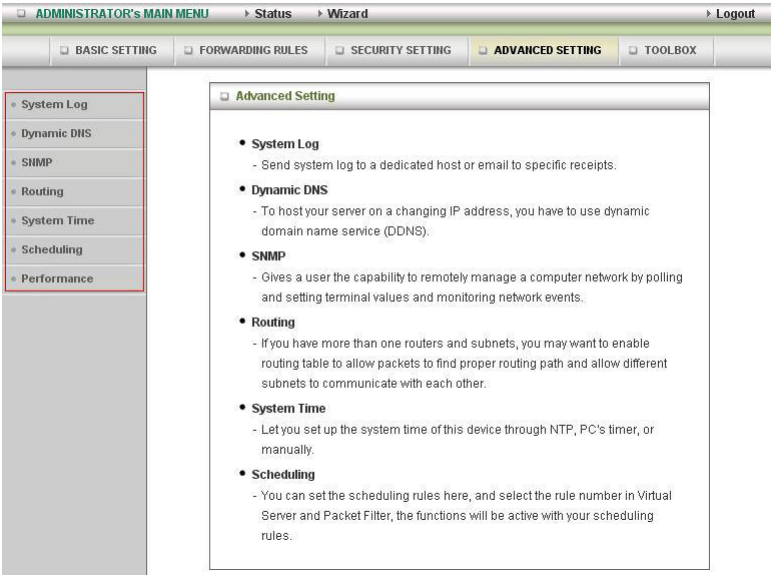
   Note: When Remote Administration is enabled, the web server port will be shifted to 80. However, you can also change web server port.

2. Administrator Time-out. The amount of time with no activity before the unit logout automatically, you may set it to zero to disable this feature.
3. Discard PING from WAN side. When enabled, any host on the WAN port can not ping the unit.
4. Disable UPNP: When enable, the UPnP feature will be disable. Some users will want to disable UPnP for security reasons.

Click Save to save the settings and Undo to cancel.

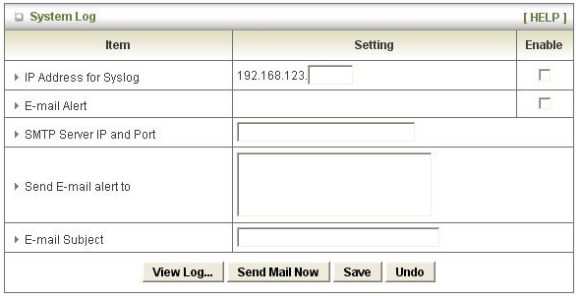
Advanced Setting

The Advanced Setting page allows you to configure the advanced settings on the unit such as System log, Dynamic DNS and SNMP. Click on any of the menu on the left to configure the access the respective setting page.



Advanced Setting > System Log

The N3G001W Wireless router supports two types of System log. One is via syslog (using UDP packet) and the second is via email.



For syslog, you need to enter the IP address of the host computer that will receive the syslog message and tick on the Enable tick box for IP Address for Syslog.

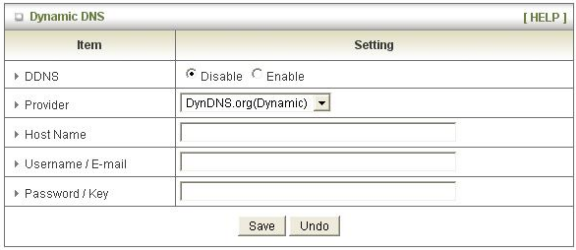
For email logging you need to define the following:

- Email Alert. Tick on the Enable tick box to enable this feature.
- SMTP Server IP and Port. Enter the IP address and port of the SMTP server separated by ":" (without quotes). If you do not specify the port number, the default value (25) will be used. For example, "mail.yoururl.com" or "mail.yoururl.com:26".
- Send E-mail alert to. Enter the recipients for the email logs. To assign more than one recipient, use ";" or "," (without quotes) to separate the email addresses. For example, recipient1@yoururl.com; recipient2@yoururl2.com.
- Email Subject (Optional). Enter the subject for the email.

Click Save to save the settings and Undo to cancel.

Advanced Setting > Dynamic DNS

Dynamic DNS feature enable users to have a static domain name for their internet connection even when their internet connection IP address is dynamic. By mapping the host name to the current public IP address of the router, users who want to connect to the router or any services behind the router from the internet can just use the Dynamic DNS hostname instead of the IP Address which might change every time the router connects to the Internet.



Before you can use Dynamic DNS service, you need to register an account on one of the many supported Dynamic DNS provider such as DynDNS.org, TZO.com and dhs.org. After registering the account, the Dynamic DNS provider will provide you with the following details:

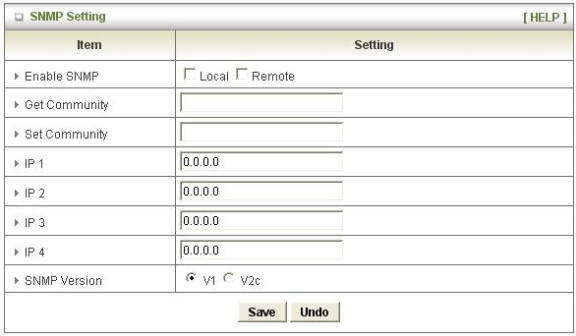
- Host Name
- Username/Email
- Password/Key.

To enable the Dynamic DNS feature on the unit, click the Enable check box, choose the respective Provider and enter the details from your provider.

Click Save to save the settings and Undo to cancel.

Advanced Setting > SNMP

SNMP (Simple Network Management Protocol) is a protocol designed to give user the capability to remotely manage a computer or network device by polling and setting terminal values and monitoring network events.



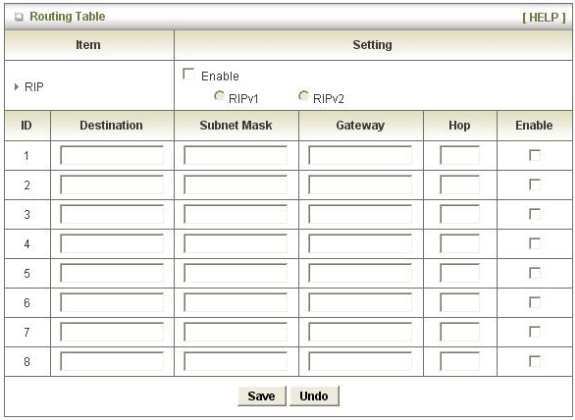
To Enable SNMP, you need to set the following:

- Enable SNMP. Check either Local or Remote or both to enable the function. If Local is ticked, the unit will respond to request from LAN and if Remote is ticked, the unit will respond to request from WAN.
- Get Community. Set the community for GetRequest. This will act as a password.
- Set Community. Set the community for SetRequest. This will act as a password.
- IP 1,IP 2,IP 3,IP 4. Input the IP addresses of your management PCs. The unit will send SNMP Trap message only to the IP address listed.
- SNMP Version. Select the SNMP version of your SNMP Management software.

Click Save to save the settings and Undo to cancel.

Advanced Setting > Routing

When you have more than one router or subnet on your network, you need to enable routing function to allow different subnets to communicate with each other.



There are two types of routing feature on the N3G001W Wireless Router, Dynamic routing and Static routing.

Dynamic Routing use RIP protocol to allow the N3G001W to adapt to changes in the network. RIP enables the device to determine the best route for each packet based on the "hop count" or number of hops between Source and Destination. Tick on Enable tick box to enable Dynamic Routing. Please select RIPv2 only if you have different subnet in your network. Otherwise, please select RIPv1 if you need this protocol.

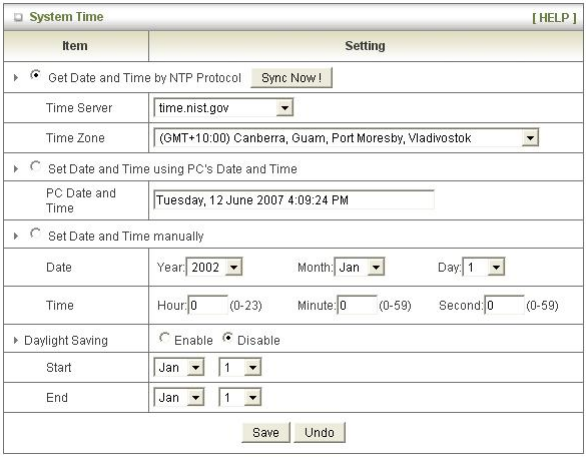
Static Routing allows computers that are connected to the N3G001W to communicate with computers on another LAN segment which are connected to the N3G001W via another router. You can specify up to eight routing rules. To set a rule, you need to specify the following:

- IP address
- Subnet mask
- Gateway
- Hop, number of hop.
- And tick on Enable for each rule.

Click Save to save the settings and Undo to cancel.

Advanced Setting > System Time

This page allows you to change the System time setting on the N3G001W Wireless Router.



There are three ways to set up the System Time on the unit.

1. Get Date and Time by NTP Protocol. Select if you want to get the date and time from an NTP server. You also need to choose the Time Server and the Time Zone. Click on Sync Now! to sync the time with the Time Server.
2. Set Date and Time using PC's Date and Time. Select if you want to set the unit time using your computer date and time.
3. Set Date and Time manually. Select to set the date and time manually.

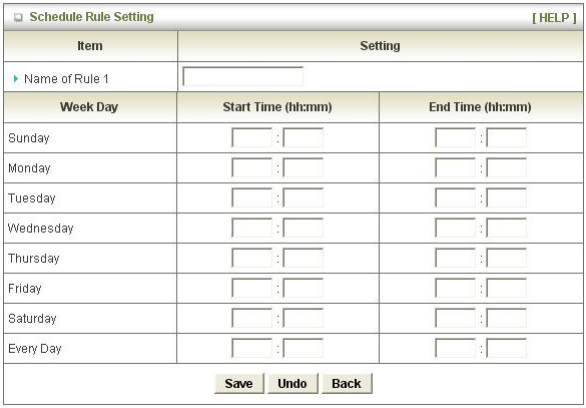
After that, you also need to set the Daylight Saving setting. Select either Enable or Disable and define the Start and End date for the daylight saving period.

Click Save to save the settings and Undo to cancel.

Advanced Setting > Scheduling

This feature allows you to define a time schedule for Virtual Server and Packet Filter rules on the unit.

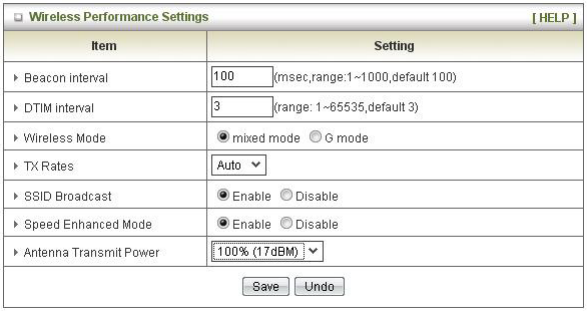
To enable Scheduling please make sure to tick the Enable tick box at the top and click on Save. After that, create a new rule by pressing the Add New Rule button.



Enter the Rule name and set the Start Time and End Time for each day. And then click Save to save the new rule. Once defined, you can use it for Virtual Server and Packet Filter by entering the rule number in Schedule Rule# Click Save to save the settings and Undo to cancel.

Advanced Setting > Performance

This page give you option to change the wireless advance settings.

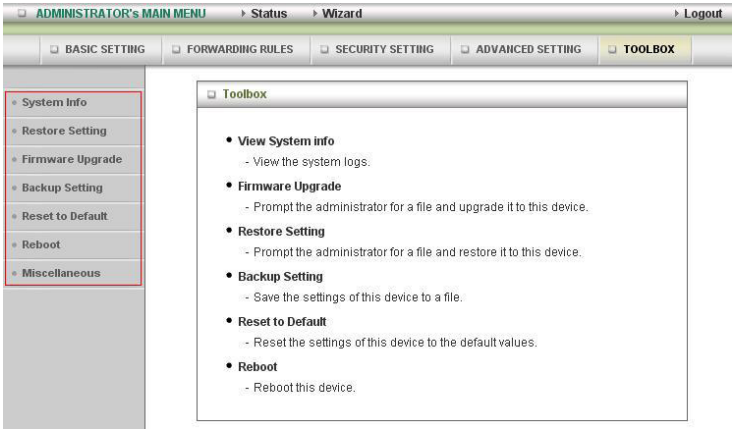


1. Beacon Interval. Beacons are packets sent by the unit to synchronize to wireless clients. The default value is set to 100 milliseconds and the acceptable value is 1 to 1000.
2. DTIM interval. The default value is set to 3 and the acceptable value is 1 to 65535. A DTIM is a countdown informing clients of the next window for listening to broadcast and multicast messages. When the unit has buffered broadcast or multicast messages for associated clients, it sends the next DTIM with a DTIM Interval value. AP clients hear the beacons and awaken to receive the broadcast and multicast messages.
3. Wireless mode. Select wireless connection mode for wireless connection. G mode will only allows connection from wireless clients with 802.11g connection. Please use mixed mode unless you to stop older wireless adapter to connect.
4. TX Rates. Default rate is Auto and operates at 54Mbps data rate when possible but drop to lower rates when necessary, dependent on signal strength and the capacity of the wireless client station.
5. SSID Broadcast. Choose enable or disable the wireless SSID broadcast. By turning off the broadcast of the SSID, it is possible to make your wireless network nearly invisible.
6. Speed Enhanced Mode. This is Tx Brust function in only available for Ralink wireless solution.
7. Antenna Transmit Power: Default is 100% 17dbM. You can either increase or decreases the antenna transmit power.

Click Save to save the settings and Undo to cancel.

Tool Box

The Tool Box page consists of various tools for the unit. Click on any of the menu on the left to access the respective page.



Tool Box > System Info

From this page you can view the System log and the Routing Table of the unit.

System Infomation

Item	Info
WAN Type	3G (R7.00a7 0710)
Display Time	Tue Jul 10 21:26:32 2007
Log Message	(•) System Log ( ) Routing Table

System Log

Time	Log
Jan 1 00:00:09	syslogd: syslogd started
Jan 1 00:00:09	boot: WAN MAC address: 00:60:64:17:f2:02
Jan 1 00:00:14	dhcp client: dhcp client started
Jan 1 00:00:14	dhcp client: Auto-Reconnect is enabled
Jan 1 00:00:14	dhcpd: Listening on LAN 192.168.123.0
Jan 1 00:00:20	dhcp client: dhcp client started
Jan 1 00:00:20	dhcp client: Auto-Reconnect is enabled
Jan 1 00:00:30	dhcp client: timed out waiting for a valid DHCP server response
Jan 1 00:00:30	dhcp client: Auto-Reconnect is enabled
Jan 1 00:00:40	dhcp client: timed out waiting for a valid DHCP server response
Jan 1 00:00:40	dhcp client: Auto-Reconnect is enabled

Tool Box > Restore Setting

To restore the configuration from a file, browse the configuration file and then click the Restore button.

Notes: Please disable any anti virus or firewall program before doing the firmware upgrade.

Tool Box > Firmware Upgrade

To update your N3G001W firmware, browse the update image file or configuration file and then click the Upgrade button.

Notes: Please disable any anti virus or firewall program before doing the firmware upgrade.

Tool Box > Backup Setting

To back up your settings to a file, click the Backup Setting button and save it as a bin file. When you want to restore those settings, please click Firmware Upgrade button and use the bin file.

Tool Box > Reset to Default

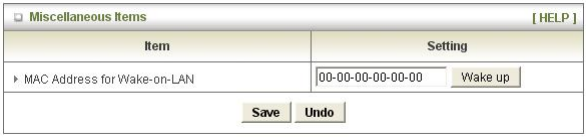
To reset the unit back to factory default settings, click on the Reset to Default button and click OK. Please wait for a few minutes as the unit will reboot after resetting the configuration.

Tool Box > Reboot

To reboot the unit manually, click the Reboot button and click OK.

Tool Box > Miscellaneous

Wake-on-LAN is a technology that allows you to power up a network device remotely. In order to use this feature, the network device must be Wake-on-LAN enabled and you need to know the MAC address of the device. By entering the network device MAC address and click on Wake Up, the router will send a wake-up frame to the network device immediately.



Notes: This feature only works for local computer connected to the router.

TROUBLESHOOTING

This section provides an overview of common issues, and possible solutions for the installation and operation of the N3G001W Wireless Router.

1. Unable to access the Web Configuration when I use my computer to configure the router.

Note: It is recommended that you use an Ethernet connection to configure the N3G001W.

Ensure that the LAN light on the N3G001W Wireless router is ON.

If the light is NOT ON, check to see if the cable for the Ethernet connection is securely connected.

Note: Ensure that the IP Address of the computer is in the same range and subnet as the N3G001W Wireless Router. The default IP Address of the N3G001Wireless Router is 192.168.123.254. All the computers on the local area network must have a unique IP Address within the same range (e.g., 192.168.123.x). All computers must also have the same subnet mask (e.g., 255.255.255.0).

Do a Ping test to make sure that the N3G001W Wireless Router is responding.

- Click on Start > Run
- Type in CMD and press Enter.
- Type "ping 192.168.123.254" (without quotes). A successful ping will shows four replies.

Note: If you have changed the default IP Address, ensure you ping the correct IP Address assigned to the N3G001Wireless Router.

2. Why my wireless client can NOT access the Internet?

When the N3G001W Wireless Router unit is configured to use Wireless encryption (WEP, WPA/WPA2 or any encryption), you need to ensure that your wireless adapter settings matches the router settings. Please refer to your wireless adapter manual for additional information.

Ensure that the wireless client is associated and joined with the correct Access Point.

To check this connection (Windows XP), follow the steps below:

- Click on Start > Control Panel > Network Connection
- Right Click on Wireless Network connection
- Select View Available Wireless Networks. The Connect to Wireless Network screen appears. Ensure you have selected the correct wireless network.

Ensure the IP Address assigned to the wireless adapter is within the same subnet as the Access Point and gateway. The N3G001W Wireless Router has a default IP Address of 192.168.123.254. Wireless adapters must have an IP Address in the same range (e.g., 192.168.123.x). Although the subnet mask must be the same for all the computers on the network, no two devices may have the same IP Address. Therefore, each device must have a unique IP Address.

To check the IP Address assigned to the wireless adapter, follow the steps below:

- Click on Start > Run
- Type in CMD and press Enter.
- Type in "ipconfig /all" and press Enter
- Type in "ping 192.168.123.254" to check if you can access the N3G001W

Note: If you have changed the default IP Address, ensure you ping the correct IP Address assigned to the N3G001Wireless Router.

3. Why does my wireless connection keep dropping?

Please try the following steps to improve the wireless signal quality.

- Antenna Orientation.
  - Try different antenna orientations for the N3G001W Wireless Router.
  - Try to keep the antenna at least 6 inches away from the wall or other objects.
- Try changing the channel on the N3G001W Wireless Router to a different channel to avoid interference. Please refer to Basic > Wireless section on page 27
- Keep your product away (at least 3-6 feet) from electrical devices that generate RF noise, like microwaves, monitors, electric motors, etc.

4. Can not establish a wireless connection?

Note: An Ethernet connection is required to troubleshoot the N3G001W Wireless Router..

When the N3G001W Wireless Router unit is configured to use Wireless encryption (WEP, WPA/WPA2 or any encryption), you need to ensure that your wireless adapter settings matches. Please refer to your wireless adapter manual for additional information.

- Move the N3G001W Wireless Router and the wireless client into the same room, and then test the wireless connection.
- Try to disable all security settings such as WEP, and MAC Address Control.
- Turn off the N3G001W and the client. And then turn the N3G001W back on again, and then turn on the client.
- Ensure that all devices are set to Infrastructure mode.
- Ensure that the LED indicators are indicating normal activity. If not, ensure that the AC power and Ethernet cables are firmly connected.
- Ensure that the IP Address, subnet mask, gateway and DNS settings are correctly entered on the computer.
- If you are using 2.4GHz cordless phones, X-10 equipment, or other home security systems, ceiling fans, or lights, your wireless connection may degrade dramatically, or drop altogether.
- To avoid interference, you can change the wireless Channel on the N3G001WWireless Router.
- Keep your product at least 3-6 feet away from electrical devices that generate RF noise. Examples include: microwaves, monitors, electric motors, and so forth.

5. I do not remember my encryption key. What should I do?

If you forgot your encryption key, the Wireless card will not be able to establish a connection to the N3G001W Wireless Router.

To reset the encryption key(s), login to the N3G001Wireless Router web configuration using an Ethernet connection. (Please refer to Basic > Wireless on page 27, for additional information).

6. How do I reset my N3G001W Wireless Router to its factory default settings?

To hard-reset the N3G001W Wireless Router its factory default settings, follow the steps listed below:

- Ensure that the router is powered on (for at least 20 seconds).
- Use a paper clip or a pencil tip to depress the reset button for ten seconds and release. At this point, the reset is in progress. Do not power off the unit at this point.
- After the router reboots, the default settings are now restored. This entire process takes several minutes to complete.
- Once you have reset the router to its default settings you will be able to access the device's web configuration using http://192.168.123.254 with password "admin".

7. What is VPN?

- VPN stands for "Virtual Private Networking." VPN creates a "tunnel" through an existing Internet connection using PPTP (Point-to-Point Tunneling Protocol) or IPSec (IP Security) protocols with various encryption schemes including Microsoft Challenge Handshake Authentication Protocol (MS-CHAP).
- This feature allows you to use your existing Internet connection to connect to a remote site with added security.

8. What can I do if my Ethernet cable does not work properly?

- First, ensure that there is a solid cable connection between the Ethernet port on the N3G001W Wireless Router, and your NIC (Network Interface Card).
- Second, ensure that the settings on your NIC adapter are "Enabled," and set to accept an IP address from the DHCP (Please refer to Computer Hardware Configuration on page 9 for additional information).
- If all settings appear to be correct, ensure that you are not using a crossover Ethernet cable. Although the N3G001W Wireless Router is MDI/MDIX compatible, not all NIC are. Therefore, it is recommended that you use a straight through Ethernet cable when possible.

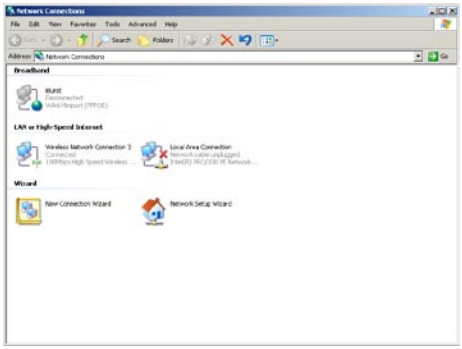
APPENDIX A ESTABLISHING YOUR WIRELESS CONNECTION

The following examples use “wireless” as the SSID and 64bit WEP with “a1b2c3d4e5” as the encryption key.

Windows XP service pack 2

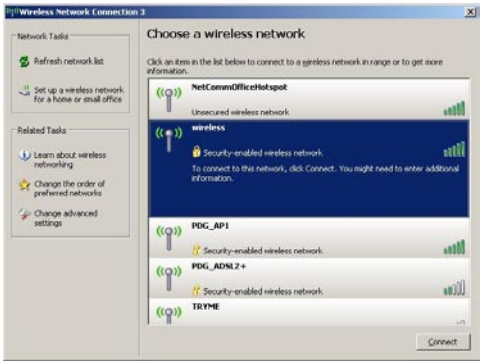
Follow these steps:

1. Open Network Connections (Start -> Control Panel -> Network Connections):

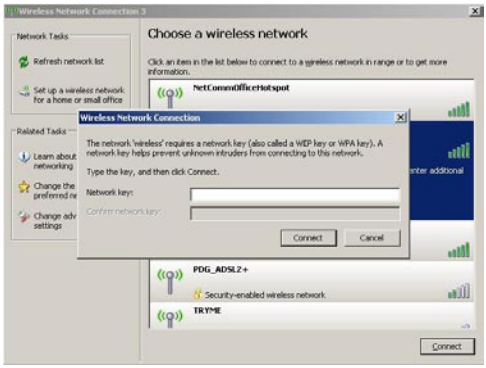


2. Right-click on your Wireless Network Connection and select View Available Wireless Networks:

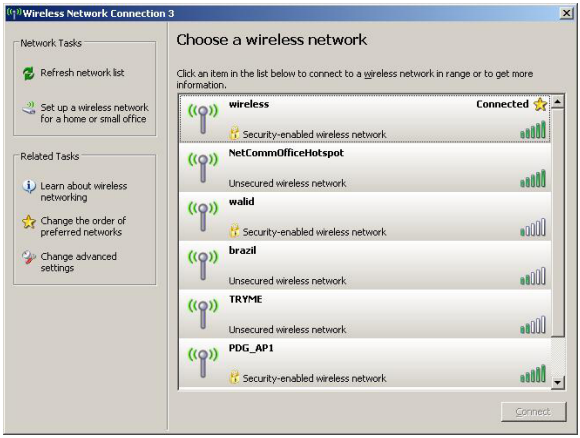
3. Select the wireless network you want to connect to and click Connect:



4. Enter the network key (“a1b2b3d4e5”) and click Connect:



5. The connection will show Connected.



Mac OSX 10.4

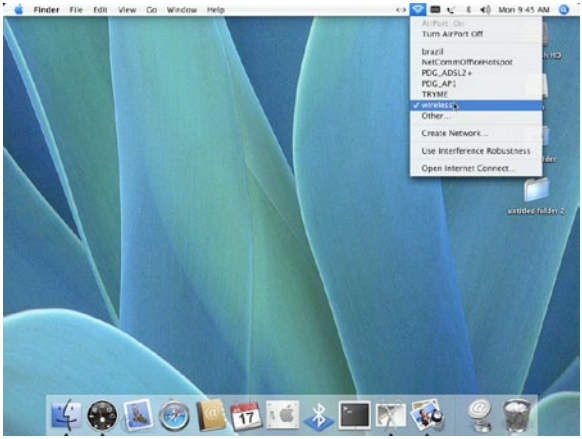
Follow these steps:

1. Click on the Airport icon on the top right menu.

2. Click on the network name that you want to connect. This example uses “wireless” as the network name.

3. On the new window, tick on Show Password and type in the network key in the Password field. This example uses “a1b2c3d4e5” as the key. After that, click on OK.

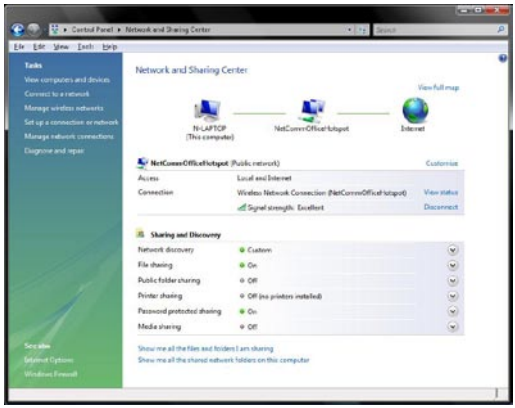
4. To check the connection, click on the Airport icon and there should be a tick on the wireless name.



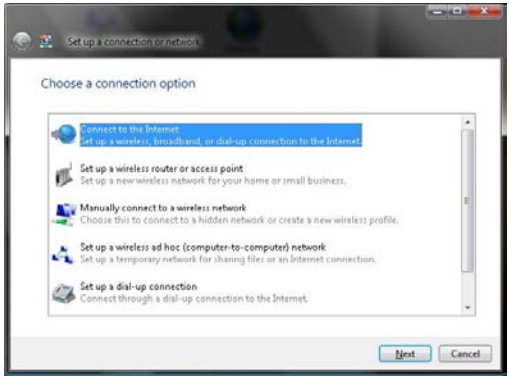
Windows Vista

Follow these steps:

1. Open Network and Sharing Center (Start > Control Panel > Network and Sharing center).



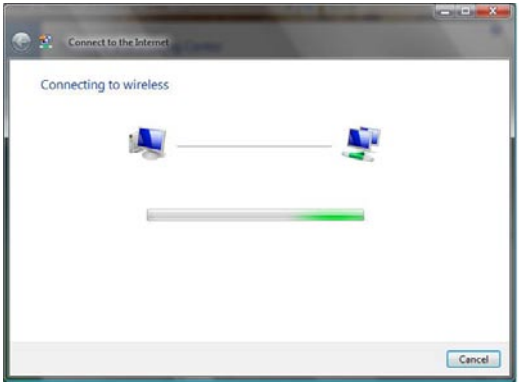
2. Click on “Connect to a network”.



3. Choose “Connect to the Internet” and click on “Next”.

4. Choose “Wireless”.

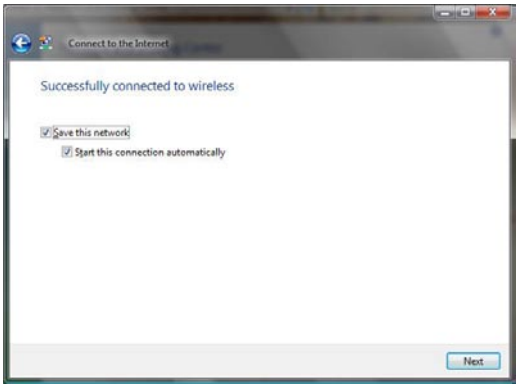
5. Click on the wireless network name. In this example, the wireless network name is “wireless” and click “Connect”.



6. Tick on “Display Characters” and type in the network key. This example uses “a1b2c3d4e5” as key. Click “Next” after that.

7. Select the appropriate location. This will affect the firewall settings on the computer.

8. Tick on both “Save this network” and “Start this connection automatically” and click on “Next”.



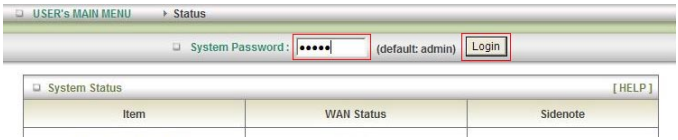
9. Now the connection is ready.

Notes: For other operating system such as Windows 98SE, Windows ME and Windows 2000 or if you use the wireless adaptor utility to configure your wireless connection, please consult the wireless adapter documentation for additional information.

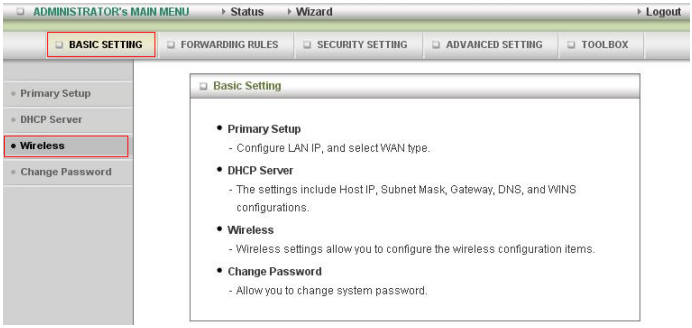
APPENDIX B HOW TO CONFIGURE WEP/WPA-PSK WIRELESS SECURITY

1. Open your web browser (i.e. Internet Explorer or Firefox) and navigate to http://192.168.123.254/.

2. At the login screen, type in admin in the System Password field. Then click on Login.



3. Click on Basic Setting and then click on Wireless.



4. After that you will be presented with the wireless setting page. On this page you can configure the wireless security.

Product Warranty

NetComm products have a standard 12 months warranty from date of purchase. However some products have an extended warranty option, via registering your product online at the NetComm website **www.netcomm.com.au**. Refer to the User Guide for complete product warranty conditions, limitations of warranty and other legal and regulatory information.

Contact Information

If you have any technical difficulties with your product, please do not hesitate to contact NetComm's Customer Support Department.

Email: support@netcomm.com.au

www.netcomm.com.au

Note: NetComm Technical Support for this product only covers the basic installation and features outlined in the Quick Start Guide. For further information regarding the advanced features of this product, please refer to the configuring sections in the User Guide or contact a Network Specialist.

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