NetComm®
www.netcomm.com.au

NB7 Series

User Guide

Contents

About the Router

About the Router

Your router offers an easy way of integrating your computer and other network devices into a single network. Here are some of the benefits you can obtain from using the router in your home or office:

Integrated Modem Feature: Your router is an ideal solution for high speed Internet connectivity. It is capable of handling the fastest data transfer speed from your Internet provider and sharing this within your local network devices.

Strong Security: Your router utilizes built-in firewall security to block service attacks. For added flexibility, it can be modified to allow specific applications to pass through while blocking intrusive threats at the same time.

Intuitive User Interface: Applying changes on the router settings can be done easily using a Web browser. The router uses a simplified user interface that allows you to apply the configurations you want for the various features of the router.

Your router will serve as the central figure in establishing your local area network (LAN) by using a combination of hardware and software. The hardware includes the cables, wireless access points, and Ethernet ports that create the path to connect your devices. The software part includes the applications that manage the flow of information in these devices.

You can complete the basic installation and Internet connection within 8 minutes. Some more time is needed if you intend to utilize more advanced functions but it can be worth it. Advanced features like port forwarding will help you create your own web server to store your Web site, Dynamic DNS allows you to access your network from the Internet, and remote access enables you to configure your router settings from different locations.

Once installation is complete, it will be much easier for you to enjoy voice communication, high speed Internet, and data/audio/video sharing within your network.

Requirements

Your computer must meet the following minimum requirements.

- Any operating system can be used
- Internet Explorer 6.0 or Firefox 2.0
- Ethernet network adapter
- An active DSL Internet account

Package Contents

Package contents are listed below. For any missing items, please contact your dealer immediately. Product contents vary for different models.

- Router
- Ethernet cable
- Telephone cable
- 12V 1A DC Power Adapter
- Easy Start Guide

Device Design – Front

Label	Action	Description
POWER	Off	No power is supplied to the device
	Steady light	Connected to an AC power supply
ETHERNET 1-4	Off	No Ethernet connection
	Steady light	Connected to an Ethernet port
	Blinking light	Transmitting/Receiving data
Wireless	Off	Access point is disabled
	Steady light	Access point is enabled
	Blinking light	Transmitting/Receiving data
DSL	Off	No DSL signal
	Blinking light	Establishing DSL signal
	Steady light	DSL signal is established
INTERNET	Off	No Internet connection
	Green light	Connected to the Internet
	Green Blinking light	Transmitting/Receiving data
	Red Blinking light	Cannot establish Internet connection

Device Design – Back

Label	Description
DSL	Connecting the telephone cable
ETHERNET 1-4	Connecting with computers/devices through Ethernet cable
RESET	Resetting the device. Press for 10 seconds to reset.
POWER (12V 1A DC)	Connecting with the 12V 1A DC power adapter
ON/OFF	Switching the device on/off
Antenna	Sending/receiving wireless signals

Getting Started

Getting Started

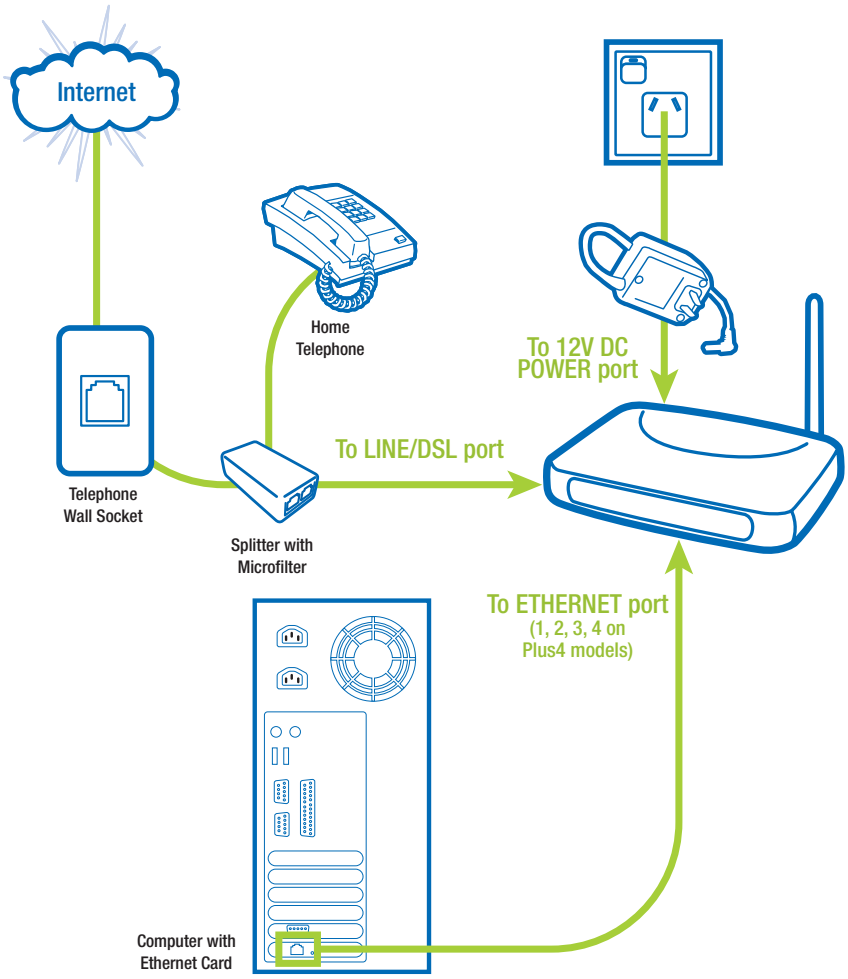
Setting up the device is easy. The diagram below provides an outline of the steps needed to complete the installation. Brief descriptions appear beside each step. Detailed instructions are provided in the subsequent pages.

Setup the Device

When installing the router, find an area where there are enough electrical outlets for the router, the main computer, and your other computer devices.

To setup the router:

1. Plug one end of the Ethernet cable from the router's ETHERNET port and then plug the other end into the Ethernet port in your computer.
2. If you have another device you need to connect to the router, use another Ethernet cable. Plug one end of the Ethernet cable from the computer's Ethernet port and then plug the other end into an available Ethernet port in the router.
3. Plug one end of the telephone cable from the ADSL Filter's ADSL port and then plug the other end into the router's DSL port. (see **Do I need a Microfilter** on **page 12**)
4. Connect the power adapter from the router's 12V 1A DC port into the electrical outlet.
5. Push the power button into the on position.


Internet
Home
Telephone
To 12V DC
POWER port
To LINE/DSL port
Telephone
Wall Socket
Splitter with
Microfilter
To ETHERNET port
(1, 2, 3, 4 on
Plus4 models)
Computer with
Ethernet Card

Do I need a Microfilter?

An ADSL Microfilter filters out ADSL signals to allow ADSL and regular Voice Calls to share a single telephone line.

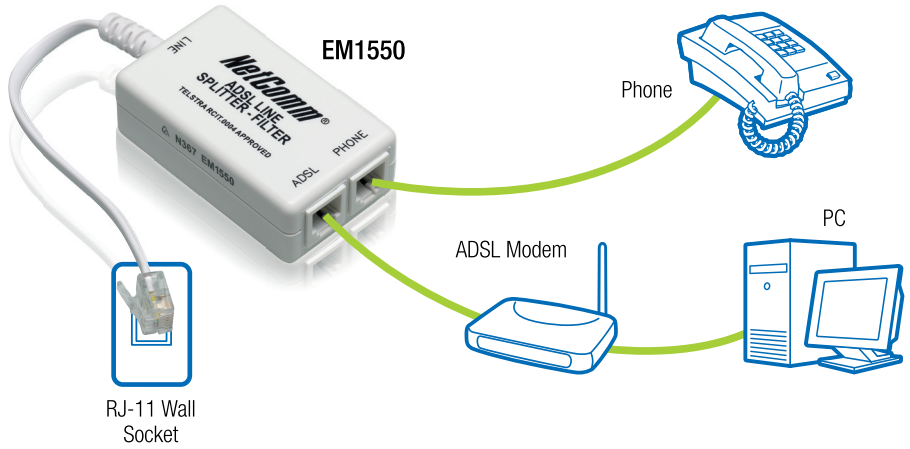
Any equipment sharing your ADSL telephone line, other than an ADSL modem must be connected to a telephone jackpoint via a microfilter. Examples of such non-ADSL equipment that MUST connect through a microfilter are :

- Telephone Handset
- Fax Machine
- Foxtel digital set
- Back to base alarm
- Modem (non adsl)
- Caller display unit
- Other devices that have an integral modem

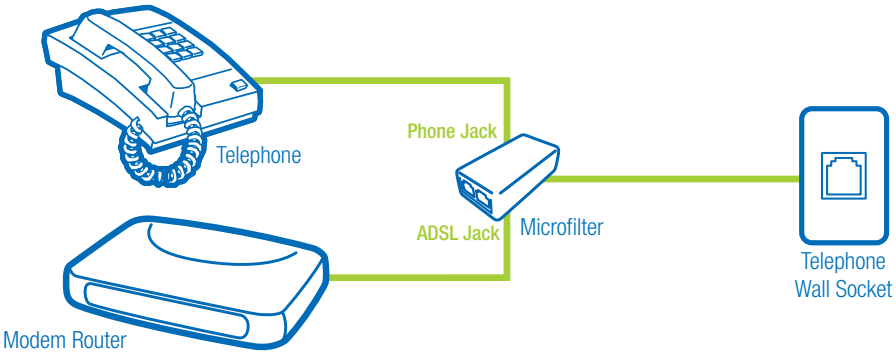
Failure to connect ALL non-ADSL equipment via a microfilter may result in loss of the data link whenever a call is made or answered. In many cases the link will also be lost when a call is received even if it is not answered.

NetComm Recommends our EM1550 ADSL2+ Microfilter to get the most out of your ADSL2+ connection

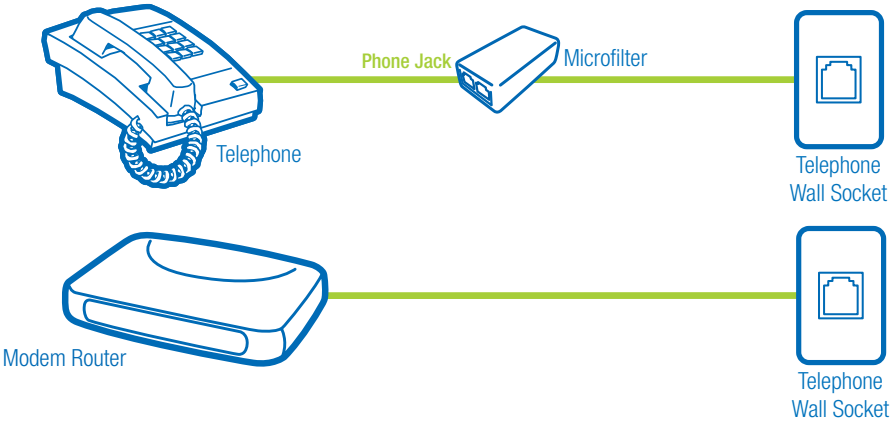
How do I connect a Microfilter?



If you are connecting the modem to a wall socket where there is already a phone, you will need to use an ADSL Microfilter. Connect the Modem and Phone into the Microfilter as shown bellow. All other phones will need a Microfilter attached between the phone and the wall socket.



If you are connecting the modem to one phone socket and the telephone to another socket. You will not need a Microfilter for the modem but you will need one for ALL the telephone sockets.



Web User Interface

The Web Interface is used to configure the router settings.

Accessing the Web User Interface

To access the Web User Interface:

1. Open your browser.
2. Enter 192.168.1.1 and then press Enter.
3. Enter the User name and Password, and then click OK. The default User name and Password is admin.

Menus

The Web User Interface includes the following menus:

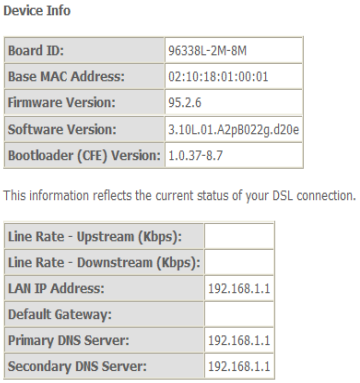
- Device Info
- Quick Setup
- Advanced Setup
- Wireless
- Diagnostics
- Management

Device Info

Device Info

Device Info > Summary

Summary provides an overview of the operating parameters used in your device.



Device Info

Board ID:	96338L-2M-8M
Base MAC Address:	02:10:18:01:00:01
Firmware Version:	95.2.6
Software Version:	3.10L.01.A2pB022g.d20e
Bootloader (CFE) Version:	1.0.37-8.7

This information reflects the current status of your DSL connection.

Line Rate - Upstream (Kbps):	
Line Rate - Downstream (Kbps):	
LAN IP Address:	192.168.1.1
Default Gateway:	
Primary DNS Server:	192.168.1.1
Secondary DNS Server:	192.168.1.1

To view Summary:

1. Select Device Info.
2. Click Summary.

Device Info > WAN

WAN displays a summary of the WAN connection settings.

Port/VPI/VCI	Con. ID	Category	Service	Interface	Protocol	Igmp	QoS	State	Status	IP Address

To view WAN:

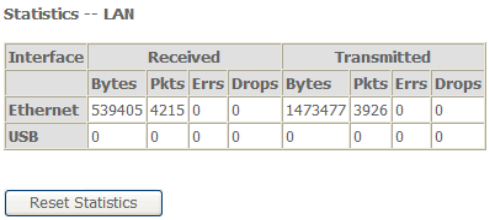
1. Select Device Info.
2. Click WAN.

Device Info > Statistics

Statistical information is provided and displayed by LAN, WAN, ATM, and ADSL.

Device Info > Statistics > LAN

LAN displays a statistical summary of the data transaction for each interface.

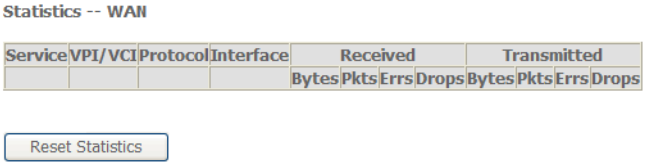


To view LAN statistics:

1. Select Device Info.
2. Click Statistics > LAN.

Device Info > Statistics > WAN

WAN displays a statistical summary of the data transaction for each connection.

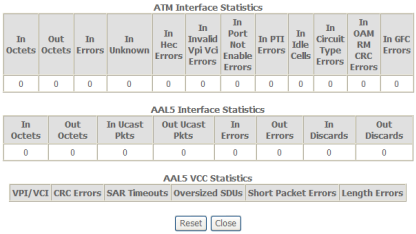


To view LAN statistics:

1. Select Device Info.
2. Click Statistics > WAN.

Device Info > Statistics > ATM

Asynchronous Transfer Mode (ATM) displays a statistical summary of the data transaction for the ATM interface.



ATM Interface Statistics

In Octets	Out Octets	In Errors	In Unknown	In Hec Errors	In Invalid Vpi Vci Errors	In Port Not Enable Errors	In PTI Errors	In Idle Cells	In Circuit Type Errors	In OAM RM CRC Errors	In GFC Errors
0	0	0	0	0	0	0	0	0	0	0	0

AAL5 Interface Statistics

In Octets	Out Octets	In Ucast Pkts	Out Ucast Pkts	In Errors	Out Errors	In Discards	Out Discards
0	0	0	0	0	0	0	0

AAL5 VCC Statistics

VPI/VCI	CRC Errors	SAR Timeouts	Oversized SDUs	Short Packet Errors	Length Errors

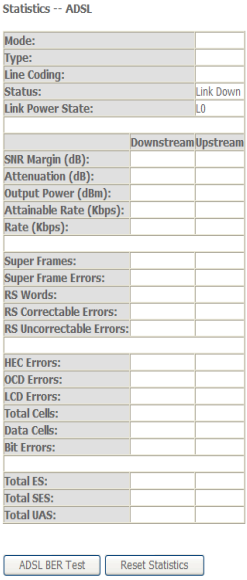
Reset Close

To view ATM statistics:

1. Select Device Info.
2. Click Statistics > ATM.

Device Info > Statistics > ADSL

ADSL displays a statistical summary of the ADSL connection.



Statistics -- ADSL

Mode:		
Type:		
Line Coding:		
Status:		Link Down
Link Power State:		L0
	Downstream	Upstream
SNR Margin (dB):		
Attenuation (dB):		
Output Power (dBm):		
Attainable Rate (Kbps):		
Rate (Kbps):		
Super Frames:		
Super Frame Errors:		
RS Words:		
RS Correctable Errors:		
RS Uncorrectable Errors:		
HEC Errors:		
OCD Errors:		
LCD Errors:		
Total Cells:		
Data Cells:		
Bit Errors:		
Total ES:		
Total SES:		
Total UAS:		

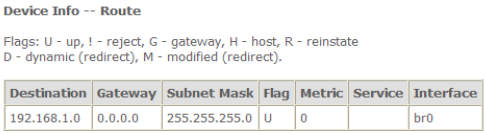
ADSL BER Test Reset Statistics

To view ADSL statistics:

1. Select Device Info.
2. Click Statistics > ADSL.

Device Info > Route

Route displays the routing rules implemented in the router.



Device Info -- Route

Flags: U - up, ! - reject, G - gateway, H - host, R - reinstate
D - dynamic (redirect), M - modified (redirect).

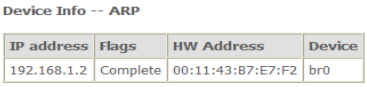
Destination	Gateway	Subnet Mask	Flag	Metric	Service	Interface
192.168.1.0	0.0.0.0	255.255.255.0	U	0		br0

To view Route:

1. Select Device Info.
2. Click Router.

Device Info > ARP

Address Resolution Protocol (ARP) displays the HW address of each IP device.



Device Info -- ARP

IP address	Flags	HW Address	Device
192.168.1.2	Complete	00:11:43:B7:E7:F2	br0

To view ARP:

1. Select Device Info.
2. Click ARP.

Device Info > DHCP

DHCP displays all the DHCP clients connected to the router.

Device Info -- DHCP Leases

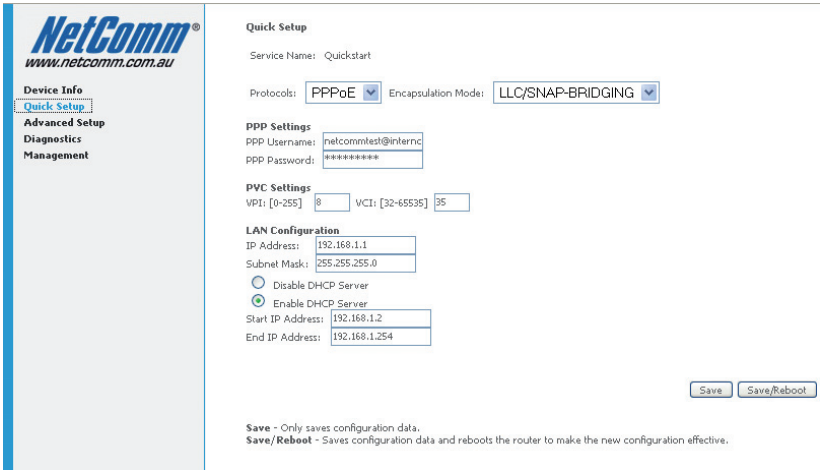
Hostname	MAC Address	IP Address	Expires In
mycomputer	00:11:43:B7:E7:F2	192.168.1.2	23 hours, 56 minutes, 58 seconds

To view DHCP:

1. Select Device Info.
2. Click DHCP.

Quick Setup

Quick Setup



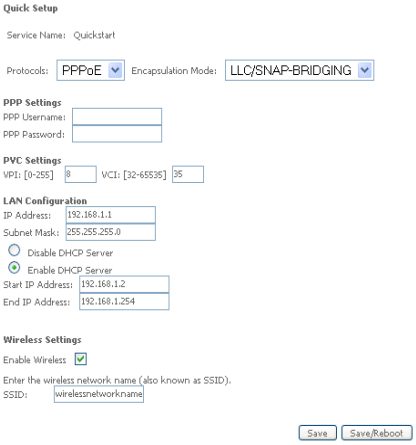
Quick Setup is used to establish an Internet connection.

To connect to the Internet via the Web Interface:

1. Open your browser.
2. Enter 192.168.1.1 and then press **Enter**.
3. Enter the User name and Password, and then click **OK**.

   The default User name and Password is **admin**.

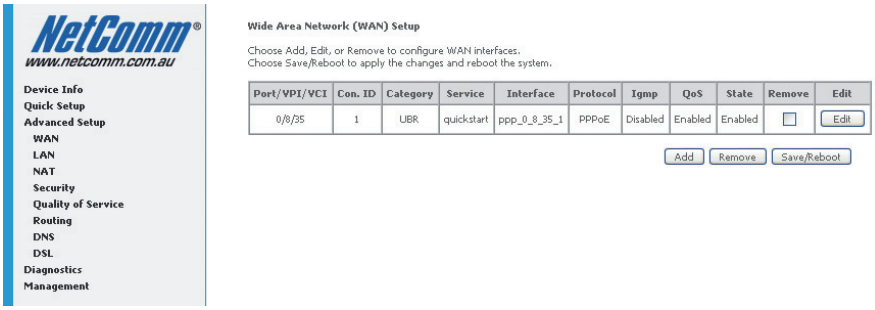
4. Select **Quick Setup**.



5. Enter the connection settings
   a. Enter the PPP Username and Password (provided by your ISP)
   b. Check **Enable Wireless**
   c. Enter a unique SSID (the SSID is your wireless network name and should be changed to a name you can recognise when scaning for wireless signals)
6. Click **Save/Reboot**.

Advanced Setup

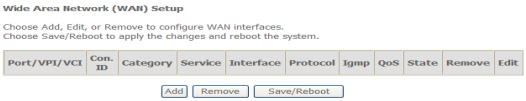
Advanced Setup



Advanced Setup provides configuration options for other router functions.

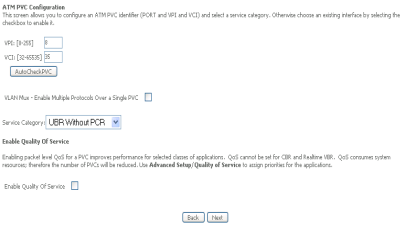
Advanced Setup > WAN

This screen provides a summary of the current WAN interfaces you have configured. If you have connected the NB7/NB7Plus4W to an ADSL connection through the ADSL Quick Setup interface, details of the connection will be summarized here.

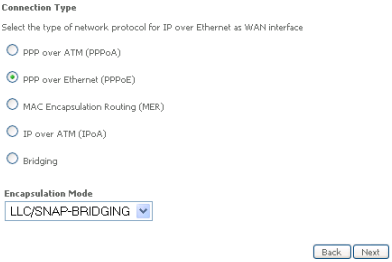


To create a new WAN connection:

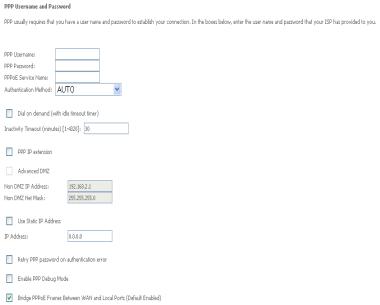
1. Select Advanced Setup.
2. Click WAN.
3. Click Add.
4. Enter the connection settings:
   a. Enter the ATM PVC Configuration, QoS Setting, and then click Next.



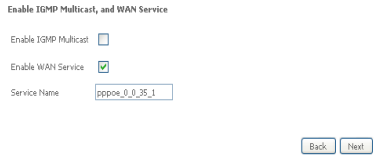
   b. Select the Connection Type, Encapsulation, and then click Next.



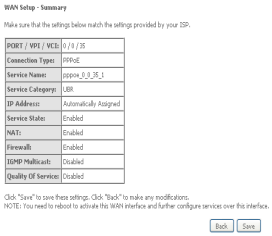
   c. If PPPoE is selected enter in the username and password then click next



d. Enable IGMP multicast if needed, then click next



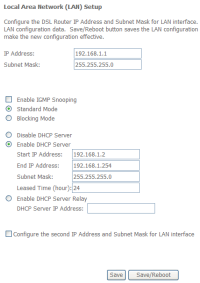
e. Check the settings. Click Back to apply modifications.



5. Click Save.

Advanced Setup > LAN

The LAN window allows you to modify the settings for your local network.



Advanced Setup > NAT

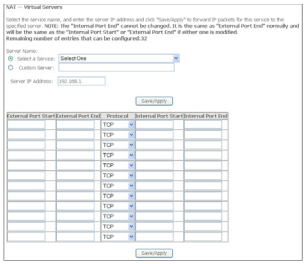
NAT stands for Network Address Translation, a process which converts private IP addresses of a computer on the internal private network to one or more public IP addresses for the Internet. NAT changes the packet headers to the new address and keeps track of each session; when packets come back from the Internet, it performs the reverse conversion to the IP address of the client machine.

Advanced Setup > NAT > Virtual Servers

Virtual Server allows you to direct incoming traffic from the Internet to a specific computer in your local network. A maximum 32 entries can be configured.

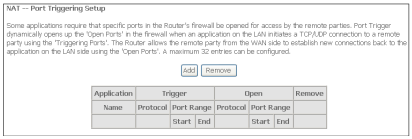
Click **Add** to create a Virtual Server.

As an example, to setup a web server on a computer using 192.168.1.88 as its IP Address, select HTTP as Service and enter 192.168.1.88 as the Server IP Address. Otherwise if the service you want to setup is not available from the Select a Service drop-down list, you can define your own Virtual Server.

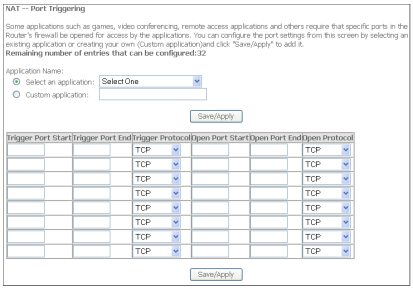


Advanced Setup > NAT > Port Triggering

Some applications require that the specific ports in the router's firewall be opened for access by the remote parties. For instance, an application uses port 25 for requests and port 113 for replies. If a computer on the LAN connects to port 25 on a remote server hosting this application, using Port Triggering on the router, incoming connections to port 113 (from the remote server) could be redirected to the PC which initiated the request. A maximum of 32 entries can be configured.



Click Add to setup Port Triggering.



Advanced Setup > NAT > DMZ Host

If a computer is assigned as a DMZ Host, it will receive all the data from the Internet that does not belong to the list of applications configured as a Virtual Server. Enter the LAN IP address of the PC you wish to set as DMZ Host in the DMZ Host IP Address. If you need to disable the DMZ Host, just clear the DMZ Host IP Address field, and then click Save/Apply.

Note: DMZ exposes your computer to the Internet and will be vulnerable to malicious attacks.

Advanced Setup > NAT > ALG

An Application Layer Gateway (ALG) allows two or more simultaneous VoIP phone calls to be made by VoIP clients through this router.

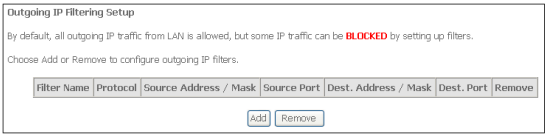
Advanced Setup > Security

Advanced Setup > Security > IP Filtering

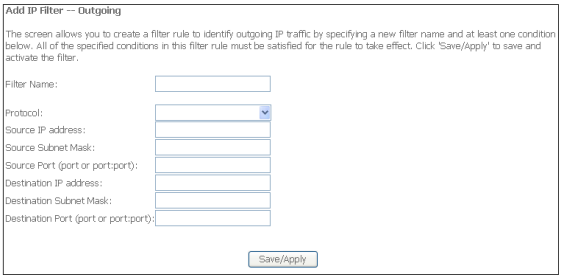
The router supports IP Filtering which allows you to easily set up rules to control incoming and outgoing Internet traffic. The router provides two types of IP filtering: Outgoing IP Filtering and Incoming IP Filtering.

Outgoing IP Filtering

By default, the router allows all outgoing Internet traffic from the LAN but by setting up Outgoing IP Filtering rules, you can block some users and/or applications from accessing the Internet.



To create a new outgoing IP filter, click Add. The Add IP Filter-Outgoing page will be displayed.



Key in the following parameters:

Filter Name	Key in the name of the filter rule.
Protocol	Select the IP protocol to block.
Source IP Address/Subnet Mask	Enter the IP address of the PC on the LAN to block.
Source Port	Enter the port number used by the application to block.
Destination IP Address/Subnet Mask	Enter the IP address of the remote server to which connection should be blocked.
Destination Port	Enter the destination port number used by the application to block.

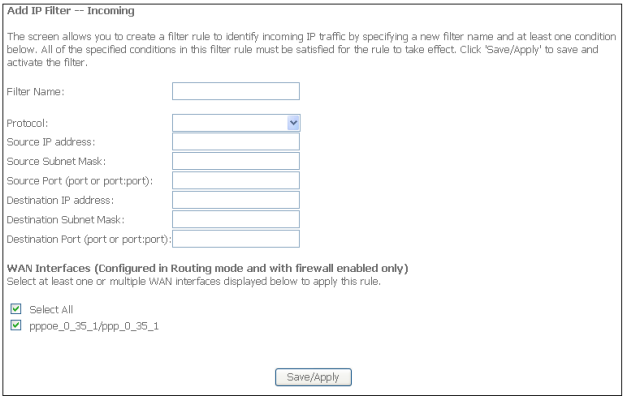
Click Save/Apply to take effect the settings. The new rule will then be displayed in the Outgoing IP Filtering table list.

To delete the rule, click Remove checkbox next to the selected rule, and click Remove.

Incoming IP Filtering

By default, when NAT is enabled, all incoming IP traffic from WAN is blocked except for responses to requests from the LAN. However, some incoming traffic from the Internet can be accepted by setting up Incoming IP Filtering rules.

To create a new incoming IP filter, click Add. The Add IP Filter-Incoming page will be displayed.



Key in the following parameters:

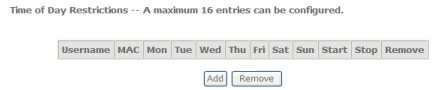
Filter Name	Key in the name of the filter rule.
Protocol	Select the IP protocol to allow.
Source IP Address/Subnet Mask	Enter the IP address of the remote server from which to allow connection.
Source Port	Enter the port number used by the application to allow.
Destination IP Address/Subnet Mask	Enter the IP address of the PC on the LAN to which connection is allowed.
Destination Port	Enter the destination port number used by the application to allow.

Click Save/Apply to take effect the settings. The new rule will then be displayed in the Incoming IP Filtering table list.

To delete the rule, click Remove checkbox next to the selected rule, and click Remove.

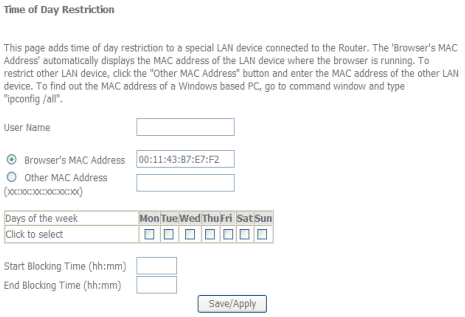
Advanced Setup > Security > Parental Control

Parental Control allows you to apply router access restrictions among LAN devices within specific times in a day. A maximum of 16 restriction rules can be created.



To add restrictions, click Add. This opens the Time of Day Restriction page. Click Start to enable a restriction or click Stop to disable the rule.

To delete a restriction, click Remove checkbox next to the selected restriction, and click Remove.



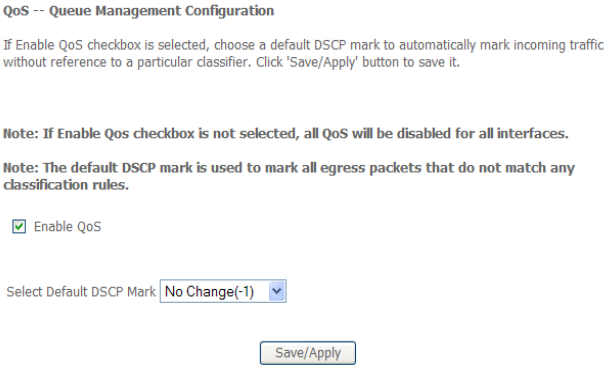
Key in the following parameters:

User Name	Enter a descriptive name for the restriction.
Browser's MAC Address or Other MAC Address	Enter the device MAC Address.
Days of the week	Click to select the days on which to apply the restriction.
Start Blocking Time (hh:mm)	Enter the time when the restriction will be enabled (00:00 to 23:59).
End Blocking Time (hh:mm)	Enter the time when the restriction will be disabled (00:00 to 23:59).

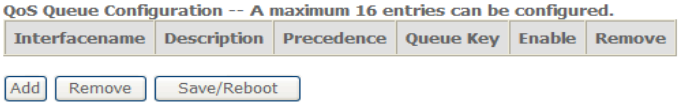
Advanced Setup > Quality of Service

Quality of Service allows certain applications to gain priority over other applications in where a continuous flow of data packets is required. For example if someone is talking on a VoIP call and someone else starts downloading a large file the VoIP call traffic will gain priority over the download so they VoIP call will go uninterrupted.

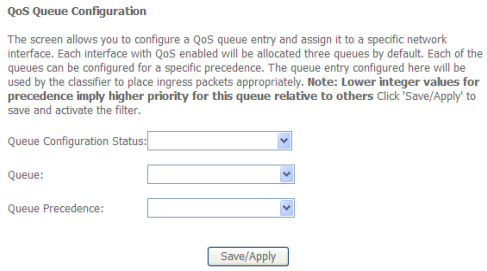
QoS gives you the capability to specify the level of priority to be provided for specific applications. By default, QoS is not enabled.



Advanced Setup > Quality of Service > Queue Configuration



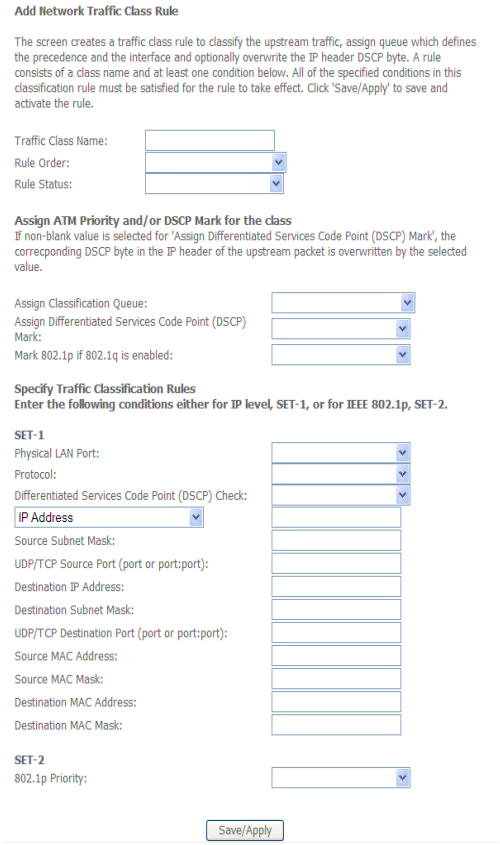
Click Add to create a QoS Queue Configuration.



Advanced Setup > Quality of Service > QoS Classification

You can add or remove QoS Classification rules.

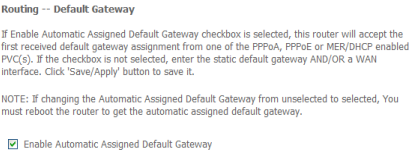
Click Add to create a Network Traffic Class Rule.



Advanced Setup > Routing

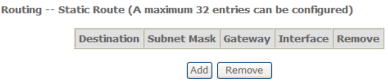
Advanced Setup > Routing > Default Gateway

The Enable Automatic Assigned Default Gateway checkbox is ticked by default. The router will accept the first received Default Gateway assignment from one of the PPPoA, PPPoE or MER/DHCP enabled PVC(s).



Advanced Setup > Routing > Static Route

Use this if your LAN consists of multiple subnets and you want to manually define the data transmitting paths



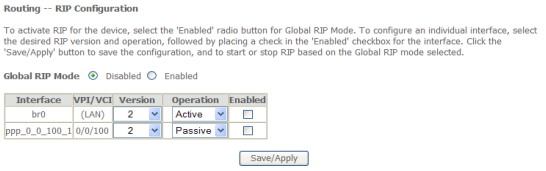
To create a new Static Route, click Add. The Routing-Static Route Add page will shows up.

The key settings for adding a new Static Route are explained:

Destination Network Address	Enter the network address to which the data packets are to be sent.
Subnet Mask	Enter the subnet mask for this destination.
Use Gateway IP Address	If you wish to use a specific gateway to reach the destination network, select this checkbox and then enter the IP address of the gateway.
Use Interface	If you wish to use a particular WAN interface, select the checkbox and select the interface.

Click Save/Apply to take effect the settings. To delete an entry from the list, click its corresponding Remove button.

Advanced Setup > Routing > RIP



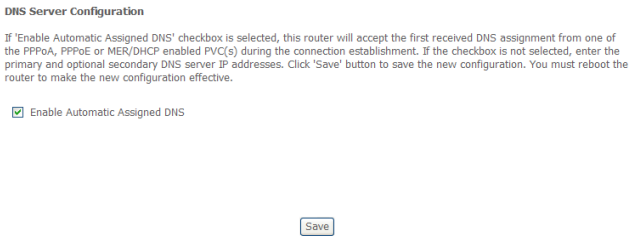
Advanced Setup > DNS

Advanced Setup > DNS > DNS Server

DNS (Domain Name System) is an Internet service that translates domain names into IP addresses. Because domain names are alphabetic, they are easier to remember. However, the Internet is based on IP addresses. Therefore, each time you type a domain name, a DNS service must translate the name into the corresponding IP address. For example, the domain name www.example.com might translate to 198.105.232.4. The DNS system consists of a network of DNS servers. If one DNS server does not know how to translate a particular domain name, it asks another one and so on until the correct IP address is returned.

If you select the Enable Automatic Assigned DNS checkbox, the router will receive and use the DNS Server assigned by your ISP.

To use your preferred DNS servers, disable the Enable Automatic Assigned DNS checkbox and key in the IP address of your Primary DSN server. Adding a Secondary DNS server is optional.



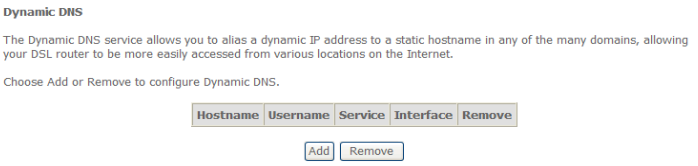
Advanced Setup > DNS > Dynamic DNS

The router offers a Dynamic Domain Name System (DDNS) feature. DDNS lets you assign a fixed host and domain name to a dynamic Internet IP Address. It is useful when you are hosting your own website, FTP server, or other server behind the router.

Before using this feature, you need to sign up for DDNS service providers. The router supports these popular Dynamic DNS service providers:

- www.dyndns.org
- www.tzo.com

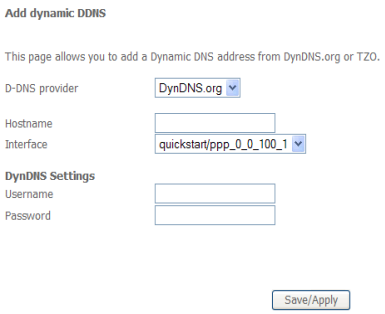
Click Add to create a Dynamic DNS setting.



Using DynDNS.org

Key in the following parameters:

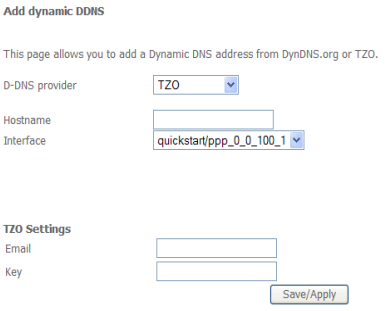
- D-DNS provider — Select DynDNS.org.
- Hostname — Enter the hostname.
- Interface — Select an interface.
- DynDNS Settings — Enter your dyndns.org Username and password.



Using TZO

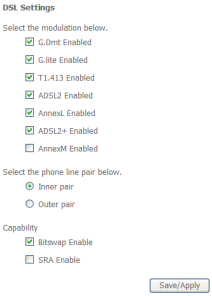
Key in the following parameters:

- D-DNS provider — Select TZO.
- Hostname — Enter the hostname.
- Interface — Select an interface.
- TZO Settings — Enter your TZO e-mail and key.



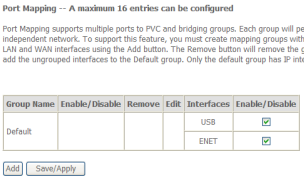
Advanced Setup > DSL

The DSL page allows you to select the modulation, the phone line pair and the capability.

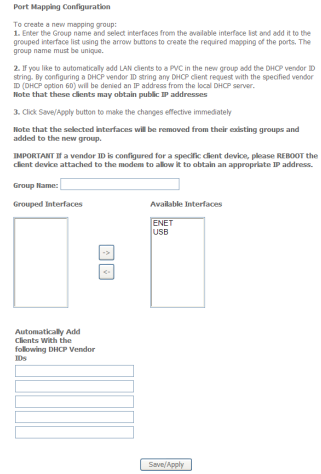


Advanced Setup > Port Mapping

Port Mapping allows you to create groups composed of the various interfaces available in your router.

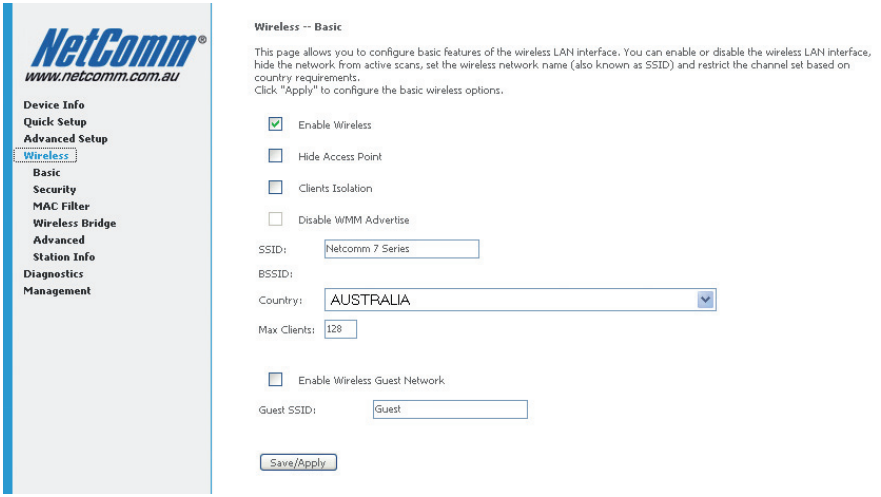


Click Add to create a port mapping group.



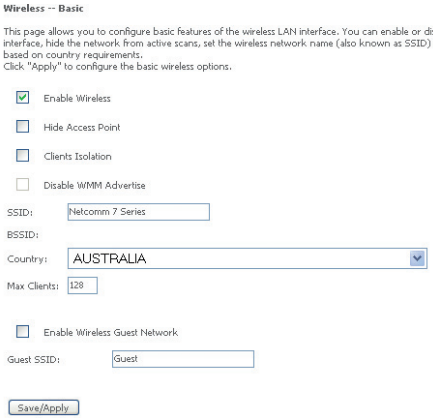
Wireless

Wireless (NB7Plus4W only)



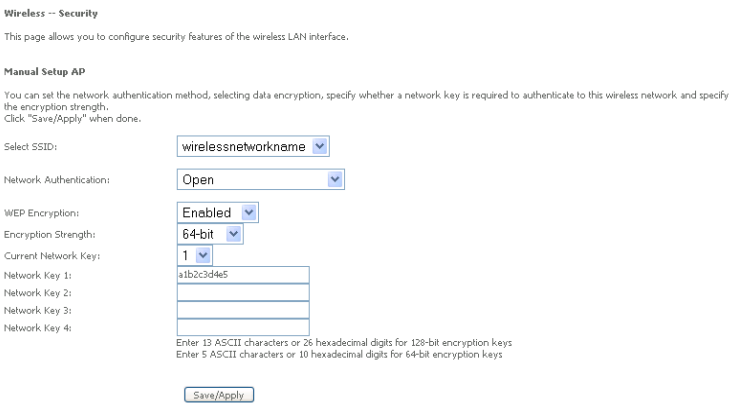
Wireless > Basic

The Wireless Basic page allows you to enable the wireless network and configure its basic settings.



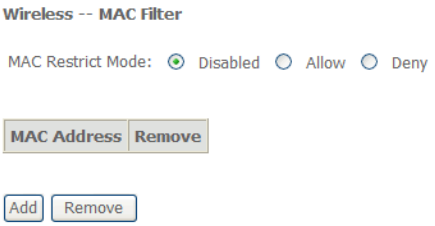
Wireless > Security

The NB7Plus4W supports all encryptions within the 802.11 standard. The factory default is WEP 64bit encryption. The NB7Plus4W also supports WPA, WPA-PSK, WPA2, WPA2-PSK. (For information on setting up wireless security see **How to change the security settings page 55**)

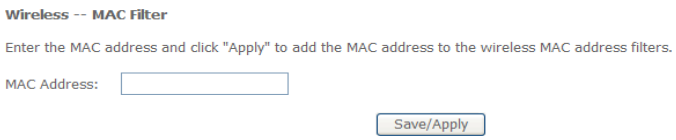


Wireless > MAC Filter

MAC Filter allows you to add or remove the MAC Address of devices which will be allowed or denied access to the wireless network.

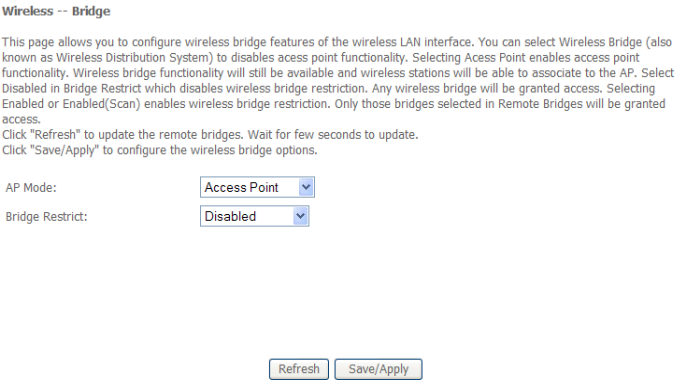


Click Add to add a MAC Address.



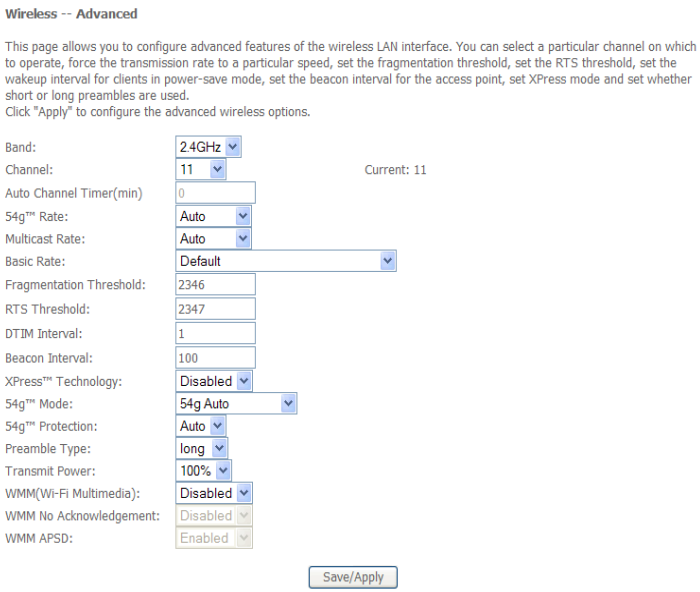
Wireless > Wireless Bridge

Wireless Bridge allows you to configure the router's access point as a bridge.



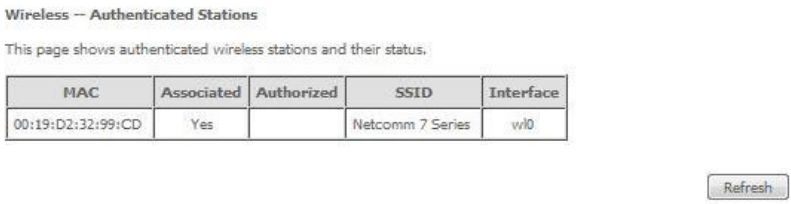
Wireless > Advanced

Advanced Wireless allows you to configure detailed wireless settings.



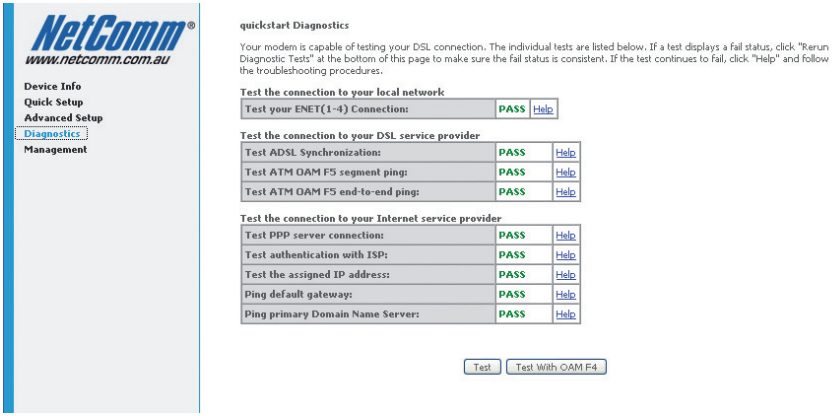
Wireless > Station Info

This page shows the MAC address of authenticated wireless stations that are connected to the NB7Plus4W and their status



Diagnostics

Diagnostics

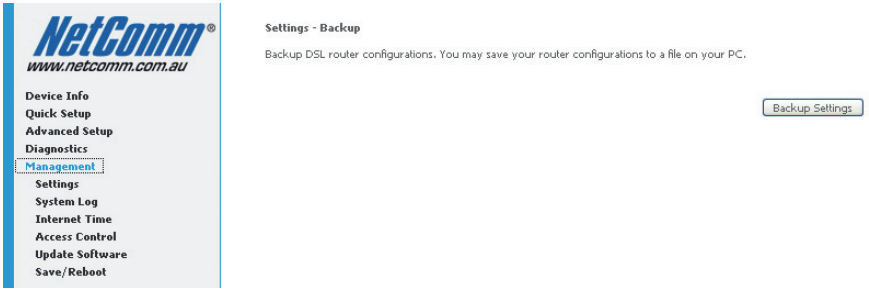


The router has a diagnostic feature to test your DSL connection. You can use the diagnostic menu to perform the following test functions from the router.

- Testing the connection to your local network
- Testing the connection to your DSL service provider.
- Testing the connection to your Internet service provider.


Management

Management



Management > Settings

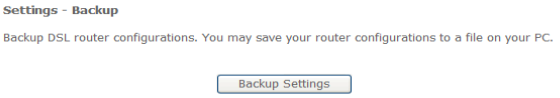
When it comes to managing the settings which you have executed to the router, you can choose to:

- Backup the settings as a configuration file stored onto your PC
- Update the current settings from a previously saved configuration file
- Erase the current settings and restore the default factory values

Management > Settings > Backup

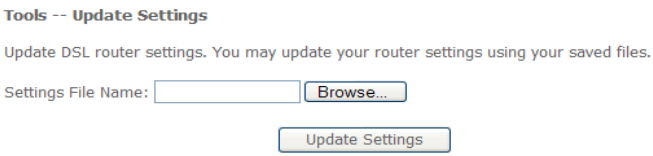
To backup the settings as a configuration file saved on your PC, click Backup Settings.

Select the folder where you want to save the file and key in the file name under which you want to save the settings.



Management > Settings > Update

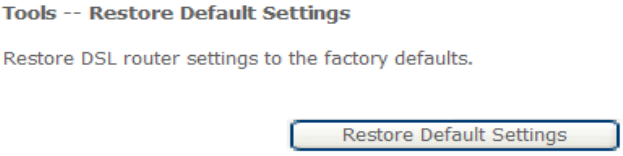
To import a previously saved configuration file from your PC and update the settings of your router, click Browse to locate the binary (.BIN or .IMG) upgrade file. Then click Update Settings.



Management > Settings > Restore Default

To restore your router to its factory default settings, click Restore Default Settings. When prompted, click OK.

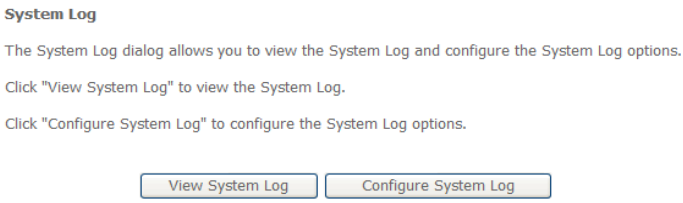
Upon clicking OK, you will be prompted to follow the instruction as shown below.



Management > System Log

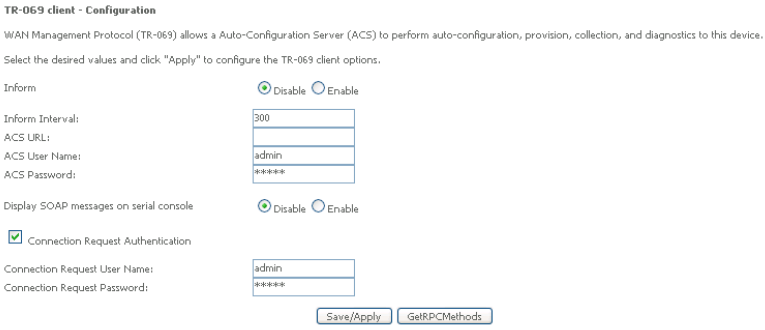
This feature provides you a comprehensive list of log entries reporting events which you have configured for viewing.

To view the log, click View System Log.



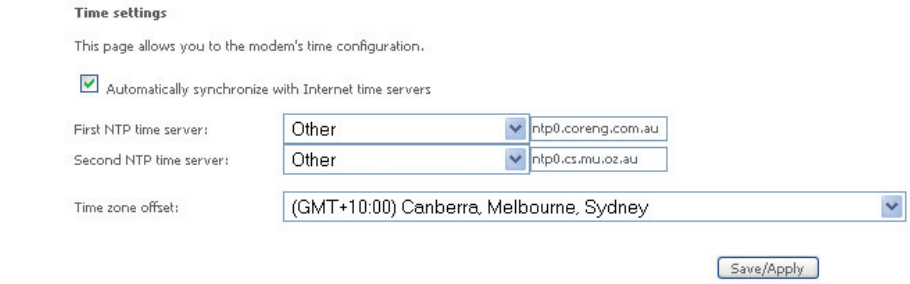
Management > TR-069 Client (NB7Plus4W only)

As a TR-069 capable router, the Internet service provider can remotely update the settings of the device.



Management > Internet Time

Enable Internet Time to automatically synchronize your time with a time server.

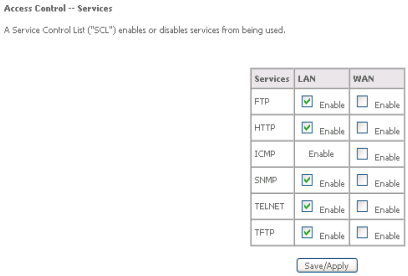


Management > Access Control

This feature enables you manage the user access rights for remote access management based on the Services being used, IP addresses and Passwords.

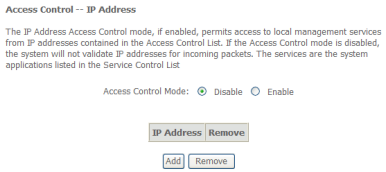
Management > Access Control > Services

Select which Services to allow and whether to allow from the LAN or the WAN.



Management > Access Control > IP Addresses

The Access Control Mode is disabled by default.

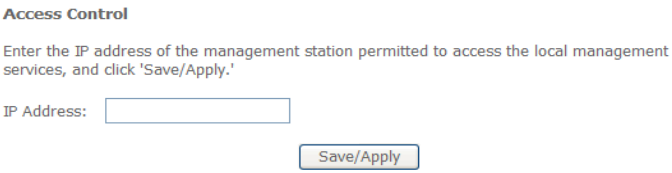


To allow remote management based on an authorized IP address, select Enable and click Add.

Key in the IP address of the PC from which a user will be allowed to access the web configuration menu.

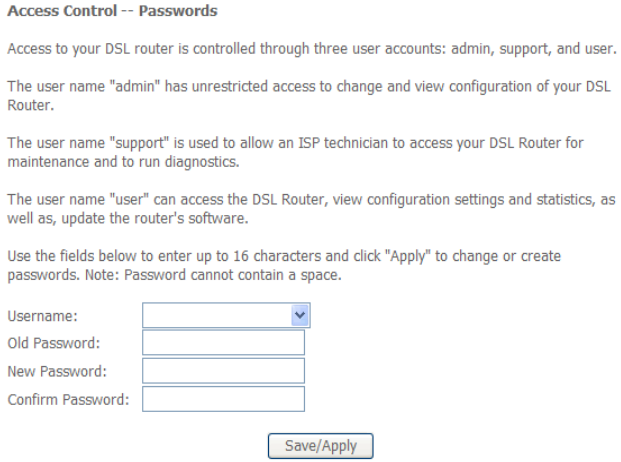
Click Save/Apply to take effect the settings. Then the IP Address will be added into the table list.

To delete the existing IP address, tick the Remove checkbox next to the selected IP address in the table list and click then Remove.



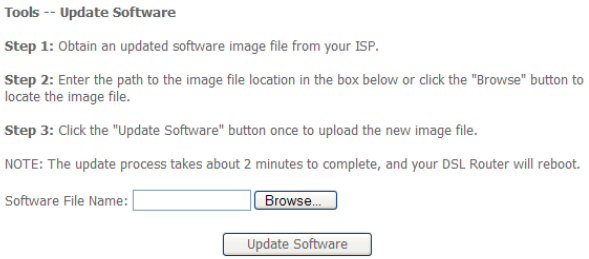
Management > Access Control > Passwords

When you configure the router through an Internet browser, the system requires you to enter your user name and password to validate your access permission. By default, the Username is set to “admin” and the Password to “admin”.



Management > Update Software

The router's software is stored in the FLASH memory and can be upgraded as new software is released. Click Browse to locate the software file and then click Update Software.



Management > Save/Reboot

This feature allows the router to enable new network configuration to take effect or to clear problems with the modem router's network connection.

Safety Precautions

- Do not open, service, or change any component.
- Only qualified technical specialists are allowed to service the equipment.
- Observe safety precautions to avoid electric shock
- Check voltage before connecting to the power supply. Connecting to the wrong voltage will damage the equipment.

Appendix

How to change the security settings

WEP encryption

The NB7Plus4W has the WEP encryption enabled by default. To change the encryption key, please follow the steps below:

1. Connect the computer directly to the modem using an Ethernet cable.
2. Open the web configuration, http://192.168.1.1/ from your web browser i.e. Internet explorer, Firefox.
3. At the log in screen, enter the Username and password. The default Username is “admin” and the default Password is “admin”. Then click on “Login”.
4. Click on “netcomm 7 series” and then click on “Security”
5. Change the Encryption Strength to either 64 bit or 128 bit.

Notes: 128bit Cipher is more secure however it will lower the data transfer speed compare to 64bit. For most home users, 64bit Cipher is adequate.

Notes: 64 bit Cipher needs 10 digits Encryption key and 128 bit Cipher needs 26 digits Encryption key.

6. Change the Network key 1 from “a1b2c3d4e5” to the new key.

Notes: WEP Encryption key can only use numbers from 0 to 9 and letters from A to F. 64 bit Cipher needs 10 digits Encryption key and 128 bit Cipher needs 26 digits Encryption key.

7. Click on “Save/Apply”

Notes: After changing the security settings, you need to remove the old wireless settings and reconfigure the wireless computer according to the new settings.

WPA2 encryption

When a more secure connection is needed, you can change the wireless security settings on the NB7Plus4W to WPA2-PSK.

Please follow the following steps:

1. Connect the computer directly to the modem using Ethernet cable.
2. Open the web configuration, http://192.168.1.1/ from your web browser i.e. Internet explorer, Firefox.
3. At the log in screen, enter the Username and password. The default Username is “admin” and the default password is “admin”. Then click on “Login”.
4. Click on “Wireless” and then click on “Security”
5. In the Wireless > Security page, change Network Authentication to “WPA2-PSK”
6. Enter the key in “WPA2 Pre-Shared Key” field. The key needs to be more than 8 digits and less than 63 digits and it can be any combination of letters and numbers.
7. Change the WPA2 Group Rekey Interval to “3600”
8. Click on “Save/Apply”

How to Bridge my NB7 Series Modem

Please see the instructions below in order to bridge your NB7 Series Modem/Router:

1. Open your Web Browser (such as Internet Explorer), and enter the following numbers into the Address Bar:
   192.168.1.1
   If asked to login, the default username and password is **admin** and **admin**.
2. Click on **Quick Setup** from the left menu.
3. Change **DHCP** from **enabled** to **disabled**.
4. Select **Bridging** and then press **Save and Reboot**.

The modem will now save it's settings, and reboot itself. Please wait for 2 minutes while this process completes.

After 2 minutes, the modem will have rebooted, and will now be in Bridge Mode.

You can now connect the NB7 Series Modem into your router, and setup the router in**PPPoE** mode.

Legal & Regulatory Information

Customer Information

ACA (Australian Communications Authority) requires you to be aware of the following information and warnings:

1. This unit shall be connected to the Telecommunication Network through a line cord which meets the requirements of the ACA TS008 Standard.
2. This equipment has been tested and found to comply with the Standards for C-Tick and or A-Tick as set by the ACA . These standards are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio noise and, if not installed and used in accordance with the instructions detailed within this manual, may cause interference to radio communications. However, there is no guarantee that interference will not occur with the installation of this product in your home or office. If this equipment does cause some degree of interference to radio or television reception, which can be determined by turning the equipment off and on, we encourage the user to try to correct the interference by one or more of the following measures:
    - Change the direction or relocate the receiving antenna.
    - Increase the separation between this equipment and the receiver.
    - Connect the equipment to an alternate power outlet on a different power circuit from that to which the receiver/TV is connected.
    - Consult an experienced radio/TV technician for help.
3. The power supply that is provided with this unit is only intended for use with this product. Do not use this power supply with any other product or do not use any other power supply that is not approved for use with this product by NetComm. Failure to do so may cause damage to this product, fire or result in personal injury.

Product Warranty

The warranty is granted on the following conditions:

1. This warranty extends to the original purchaser (you) and is not transferable;
2. This warranty shall not apply to software programs, batteries, power supplies, cables or other accessories supplied in or with the product;
3. The customer complies with all of the terms of any relevant agreement with NetComm and any other reasonable requirements of NetComm including producing such evidence of purchase as NetComm may require;
4. The cost of transporting product to and from NetComm's nominated premises is your responsibility; and,
5. NetComm does not have any liability or responsibility under this warranty where any cost, loss, injury or damage of any kind, whether direct, indirect, consequential, incidental or otherwise arises out of events beyond NetComm's reasonable control. This includes but is not limited to: acts of God, war, riot, embargoes, acts of civil or military authorities, fire, floods, electricity outages, lightning, power surges, or shortages of materials or labour.
6. The customer is responsible for the security of their computer and network at all times. Security features may be disabled within the factory default settings. NetComm recommends that you enable these features to enhance your security.

The warranty is automatically voided if:

1. You, or someone else, use the product, or attempts to use it, other than as specified by NetComm;
2. The fault or defect in your product is the result of a voltage surge subjected to the product either by the way of power supply or communication line, whether caused by thunderstorm activity or any other cause(s);
3. The fault is the result of accidental damage or damage in transit, including but not limited to liquid spillage;
4. Your product has been used for any purposes other than that for which it is sold, or in any way other than in strict accordance with the user manual supplied;
5. Your product has been repaired or modified or attempted to be repaired or modified, other than by a qualified person at a service centre authorised by NetComm; and,
6. The serial number has been defaced or altered in any way or if the serial number plate has been removed.

Limitations of Warranty

The Trade Practices Act 1974 and corresponding State and Territory Fair Trading Acts or legalisation of another Government ("the relevant acts") in certain circumstances imply mandatory conditions and warranties which cannot be excluded. This warranty is in addition to and not in replacement for such conditions and warranties.

To the extent permitted by the Relevant Acts, in relation to your product and any other materials provided with the product ("the Goods") the liability of NetComm under the Relevant Acts is limited at the option of NetComm to:

- Replacement of the Goods; or
- Repair of the Goods; or
- Payment of the cost of replacing the Goods; or
- Payment of the cost of having the Goods repaired.

All NetComm ACN 002 490 486 products have a standard 12 months warranty from date of purchase. However some products have an extended warranty option (refer to packaging). To be eligible for the extended warranty you must supply the requested warranty information to NetComm within 30 days of the original purchase by registering on-line via the NetComm web site at

www.netcomm.com.au

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.

NetComm Limited ABN 85 002 490 486
PO Box 1200, Lane Cove NSW 2066 Australia
E – sales@netcomm.com.au **W** – www.netcomm.com.au