

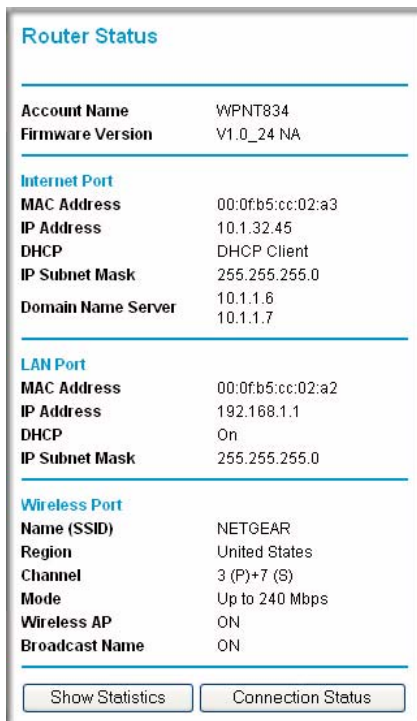
Chapter 6

Maintenance

This chapter describes how to use the maintenance features of your RangeMax 240 Wireless Router WPNT834. These features can be found by clicking on the **Maintenance** heading in the main menu of the browser interface.

Viewing Wireless Router Status Information

The Router Status menu provides status and usage information. From the main menu of the browser interface, click **Maintenance**, then select **Router Status** to view the Router Status screen, shown below.



The screenshot shows the 'Router Status' page with the following information:

Router Status	
Account Name	WPNT834
Firmware Version	V1.0_24 NA
Internet Port	
MAC Address	00:0f:b5:cc:02:a3
IP Address	10.1.32.45
DHCP	DHCP Client
IP Subnet Mask	255.255.255.0
Domain Name Server	10.1.1.6 10.1.1.7
LAN Port	
MAC Address	00:0f:b5:cc:02:a2
IP Address	192.168.1.1
DHCP	On
IP Subnet Mask	255.255.255.0
Wireless Port	
Name (SSID)	NETGEAR
Region	United States
Channel	3 (P)+7 (S)
Mode	Up to 240 Mbps
Wireless AP	ON
Broadcast Name	ON

At the bottom of the page, there are two buttons: 'Show Statistics' and 'Connection Status'.

Figure 6-1

This screen shows the following parameters:

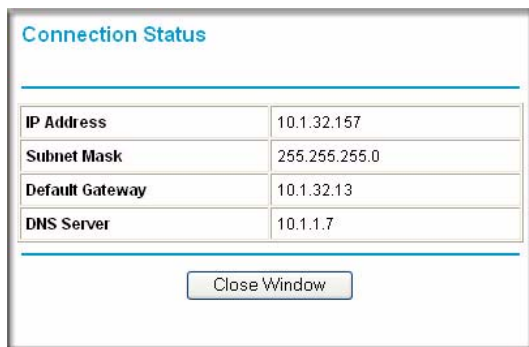
Table 6-1. Wireless Router Status Fields

Field	Description
Account Name	This field displays the Host Name assigned to the router.
Firmware Version	This is the version of the current software the router is using. This will change if you upgrade your router.
Internet Port	These parameters apply to the Internet (WAN) port of the router.
MAC Address	This field displays the Media Access Control address, the physical address, being used by the Internet (WAN) port of the router.
IP Address	This field displays the IP address being used by the Internet (WAN) port of the router. If no address is shown, or is 0.0.0.0, the router cannot connect to the Internet.
DHCP	If set to None, the router is configured to use a fixed IP address on the WAN. If set to DHCP Client, the router is configured to obtain an IP address dynamically from the ISP.
IP Subnet Mask	This field displays the IP Subnet Mask being used by the Internet (WAN) port of the router. For an explanation of subnet masks and subnet addressing, see "Internet Networking and TCP/IP Addressing" in Appendix B .
Domain Name Server	This field displays the Domain Name Server addresses being used by the router. A Domain Name Server translates human-language URLs, such as http://www.netgear.com , into IP addresses.
LAN Port	These parameters apply to the Local (LAN) port of the router.
MAC Address	This field displays the Media Access Control address, the physical address, being used by the LAN port of the router.
IP Address	This field displays the IP address being used by the Local (LAN) port of the router. The default is 192.168.1.1
DHCP	Identifies if the router's built-in DHCP server is active for the LAN attached devices.
IP Subnet Mask	This field displays the IP Subnet Mask being used by the Local (LAN) port of the router. The default is 255.255.255.0

Table 6-1. Wireless Router Status Fields (continued)

Field	Description
Wireless Port	These parameters apply to the Wireless port of the router.
Name (SSID)	This field displays the wireless network name (SSID) being used by the wireless port of the router. The default is NETGEAR.
Region	This field displays the geographic region where the router being used. It may be illegal to use the wireless features of the router in some parts of the world.
Channel	Identifies the channel of the wireless port being used. See "Wireless Communications" in Appendix B for the frequencies used on each channel. In "Up to 240 Mbps" mode, there are two channels: a primary channel (P) and a secondary channel (S).
Mode	Indicates the router communication mode: 802.11g and 802.11b, 802.11g only, Up To 126 Mbps, or Up To 240 Mbps.
Wireless AP	Indicates if the Router Radio feature of the Router is enabled. If not enabled, the Wireless LED on the front panel will be off.
Broadcast Name	Indicates if the router is broadcasting its SSID

Click on the **Connection Status** button to display the connection status, as shown below.

**Figure 6-2**

This screen shows the following statistics:

Table 6-2: Connection Status Items

Item	Description
IP Address	The WAN (Internet) IP Address assigned to the router.
Subnet Mask	The WAN (Internet) Subnet Mask assigned to the router.
Default Gateway	The WAN (Internet) default gateway the router communicates with.
DNS Server	The IP address of the DNS server which provides network name to IP address translation.

Click the **Show Statistics** button to display router usage statistics, as shown below.

Port	Status	TxPkts	RxPkts	Collisions	Tx B/s	Rx B/s	Up Time
WAN	STATIC	2242	22821	0	0	0	00:00:00
LAN	100M/Full	4869	4247	0	988	21	05:33:33
WLAN	54M/240M	1044	0	0	3	0	04:58:45

System Up Time 05:34:15

Poll Interval: (secs)

Figure 6-3

This screen shows the following statistics:

Table 6-3: Router Statistics Items

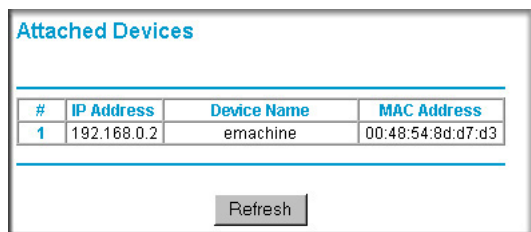
Item	Description
System Up Time	The amount of time since the router was last restarted.
Port	The statistics for the WAN (Internet) and LAN (local) ports. For each port, the screen displays:
Status	The link status of the port.
TxPkts	The number of packets transmitted on this port since reset or manual clear.
RxPkts	The number of packets received on this port since reset or manual clear.
Collisions	The number of collisions on this port since reset or manual clear.
Tx B/s	The current transmission (outbound) bandwidth used on the WAN and LAN ports.
Rx B/s	The current reception (inbound) bandwidth used on the WAN and LAN ports.

Table 6-3: Router Statistics Items (continued)

Item	Description
Up Time	The time elapsed since this port acquired the link.
Poll Interval	Specifies the intervals at which the statistics are updated in this window.
Set Interval	Enter a time and click the Set Interval button to set the polling frequency.

Viewing a List of Attached Devices

The Attached Devices menu contains a table of all IP devices that the router has discovered on the local network. From the main menu of the browser interface, under the Maintenance heading, select **Attached Devices** to view the table, shown below.




#	IP Address	Device Name	MAC Address
1	192.168.0.2	emachine	00:48:54:8d:d7:d3

Refresh

Figure 6-4

For each device, the table shows the IP address, NetBIOS Host Name or Device Name (if available), and Ethernet MAC address. To force the router to look for attached devices, click the **Refresh** button.

	Note: If the router is rebooted, the table data is lost until the router rediscovers the devices.
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Configuration File Management

The configuration settings of the WPNT834 router are stored within the router in a configuration file. This file can be saved (backed up) to a user's PC, retrieved (restored) from the user's PC, or cleared to factory default settings.

From the main menu of the browser interface, under the Maintenance heading, select the **Backup Settings** heading to bring up the menu shown below.

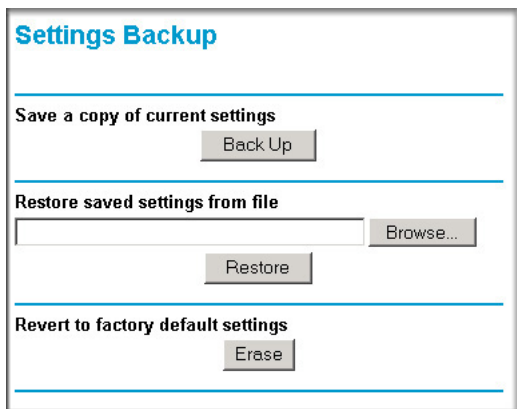


Figure 6-5

Three options are available, and are described in the following sections.

Backing Up and Restoring the Configuration

The Restore and Backup options in the Settings Backup menu allow you to save and retrieve a file containing your router's configuration settings.

To save your settings, click the **Back Up** button. Your browser will extract the configuration file from the router and will prompt you for a location on your computer to store the file. You can give the file a meaningful name at this time, such as pacbell.cfg.

To restore your settings from a saved configuration file, enter the full path to the file on your computer or click the **Browse** button to browse to the file. When you have located it, click the **Restore** button to send the file to the router. The router will then reboot automatically.



Warning: Do not interrupt the reboot process.

Erasing the Configuration

It is sometimes desirable to restore the router to the original default settings. This can be done using the Erase function, which restores all factory settings. After an erase, the router's username is **admin**, the password is **password**, the LAN IP address is 192.168.1.1, and the router's DHCP server is enabled.

To erase the configuration, click the **Erase** button.

To restore the factory default configuration settings without knowing the login password or IP address, you must use the Default Reset button on the rear panel of the router. See [“Restoring the Default Configuration and Password” on page 7-7](#).

Upgrading the Router Software



Tip: To ensure you are always using the latest firmware, enable the Firmware Upgrade Assistant feature so that the router will automatically detect a new version of the firmware on the Internet and alert you to its availability.

This screen appears at login unless you check Do Not Display This Message Again and click **Yes**.

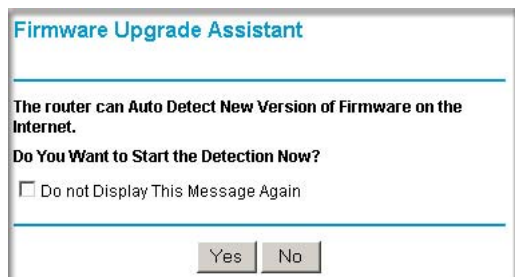


Figure 6-6



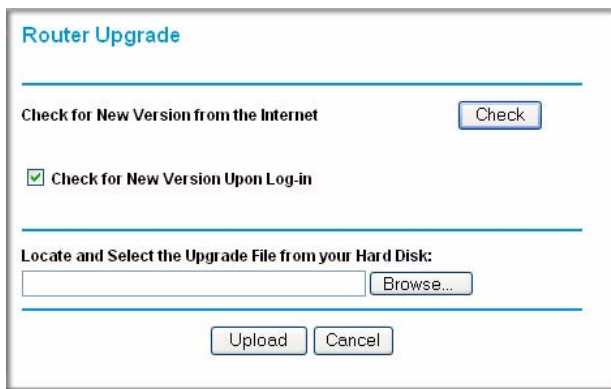
Tip: Before upgrading the router software, use the router backup menu to save your configuration settings. A router upgrade may revert the router settings back to the factory defaults. If so, after completing the upgrade, you can restore your settings from the backup.

The routing software of the WPNT834 router is stored in FLASH memory, and can be upgraded as new software is released by NETGEAR. Upgrade files can be downloaded from the NETGEAR Web site. If the upgrade file is compressed (.ZIP file), you must first extract the file before sending it to the router. The upgrade file can be sent to the router using your browser.



Note: The Web browser used to upload new firmware into the WPNT834 router must support HTTP uploads. NETGEAR recommends using Microsoft Internet Explorer or Netscape Navigator 3.0 or above.

From the main menu of the browser interface, under the Maintenance heading, select the **Router Upgrade** link to display the menu shown below.



The screenshot shows a web interface titled "Router Upgrade". It features a "Check for New Version from the Internet" section with a "Check" button. Below that is a checked checkbox for "Check for New Version Upon Log-in". The next section is "Locate and Select the Upgrade File from your Hard Disk:", which includes a text input field and a "Browse..." button. At the bottom are "Upload" and "Cancel" buttons.

Figure 6-7

To upload new firmware:

1. Click the **Check** button to download and unzip (if the download file is a .zip file) the new software file from NETGEAR.
2. Click the **Browse** button and browse to the location of the upgrade file.
3. Click **Upload**.



Warning: When uploading software to the WPNT834 router, it is important not to interrupt the Web browser by closing the window, clicking a link, or loading a new page. If the browser is interrupted, it may corrupt the software. When the upload is complete, your router will automatically restart. The upgrade process typically takes about one minute.

In some cases, you may need to reconfigure the router after upgrading.

Changing the Administrator Password



Tip: Before changing the router password, use the router backup utility to save your configuration settings. If after changing the password, you forget the new password you assigned, you will have to reset the router back to the factory defaults to be able to log in using the default password of **password**. This means you will have to restore all the router configuration settings. If you ever have to reset the router back to the factory defaults, you can restore your settings from the backup.

The default password for the router's Web Configuration Manager is **password**. NETGEAR recommends that you change this password to a more secure password.

From the main menu of the browser interface, under the Maintenance heading, select Set Password to bring up the menu shown below.

Set Password

Old Password

New Password

Repeat New Password

Apply Cancel

Figure 6-8

To change the password, first enter the old password, then enter the new password twice. Click **Apply**.

