

Chapter 4 Management

This chapter describes how to use the management and information features as well as the advanced wireless settings features of your RangeMax NEXT Wireless Access Point. These features can be found under the Management, Information and Advanced menus on the left navigation pane of the browser interface.

Changing the Password



Note: Before changing the WN802T password, use the backup utility to save your configuration settings. If you forget your new password, you must reset the WN802T back to the factory defaults and use the default password. Consequently, you will have to restore any WN802T configuration settings you have made. The backup file can be used in this event.

The default password for the WN802T is **password**. NETGEAR recommends that you change this password to a more secure password.

To change the password:

1. Select **Change Password** under the **Management** menu on the left navigation pane. The **Change Password** screen will display.

Set Password

Old Password

New Password

Repeat New Password

Restore Default Password Yes No

Apply Cancel

Figure 4-1

Figure 4-2

2. First enter the old password, in the **Old Password** field.
3. Then enter the new password twice in the **New Password** and **Repeat New Password** fields.
4. Click **Apply** to save your changes.



Note: Be sure to write down the new password and store it in a safe place.

To restore the default password:

1. Check the **Restore Default Password** radio button.
2. Click **Apply**. The default password will be restored.

Upgrading the Wireless Access Point Firmware

The software of the RangeMax NEXT 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 image (.img) file before sending it to the wireless access point. The upgrade file can be sent using your browser.



Note: The Web browser used to upload new firmware into the RangeMax NEXT must support HTTP uploads, such as Microsoft Internet Explorer 6.0 or above, or Netscape Navigator 4.78 or above.


To upgrade the firmware:

1. Go to the NETGEAR Web site at http://kbserver.netgear.com/downloads_support.asp to get new versions of the Access Point software.
2. Download, save and unzip (if the download file is a .zip file) the new software file.
3. From the main menu of the browser interface, click **Upgrade Firmware** under the **Management** menu on the left navigation panel. The **Upgrade Firmware** screen will display.



Figure 4-3

4. Click **Browse** and go to the location of the downloaded software upgrade file.
5. Click **Upload**.

	<p>Warning: When uploading firmware to the wireless access point, 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, the upload may fail, corrupt the software, and render the WN802T inoperable.</p>
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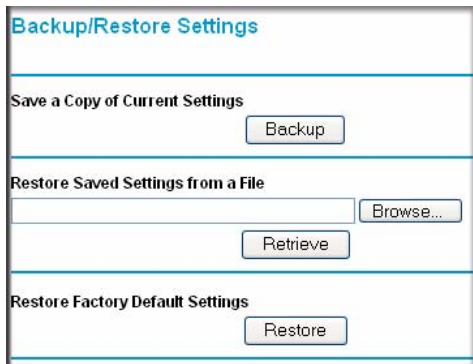
In some cases, it may be necessary to reconfigure the wireless access point after upgrading.

Backing Up or Restoring Settings

You can back up your configuration settings of the RangeMax NEXT and restore the factory default settings. Once you have your wireless access point working properly, backing up the configured settings would be prudent should you have to perform a factory reset. When you backup the settings, they are saved as a file on your computer that you can access to restore the wireless access point's configured settings.


To backup/restore settings:

1. From the main menu of the browser interface, select **Backup/Restore Settings** from under the **Management** menu. The **Backup/Restore Settings** screen will display.

**Figure 4-4**


2. Select the task you want to perform:

- To create a backup file of the current settings, click **Backup** under the **Save a Copy of Current Settings** heading.
 - If you don't have your browser set up to save downloaded files automatically, locate where you want to save the file, rename it if you like, and click Backup.
 - If you have your browser set up to save downloaded files automatically, the file will be automatically saved to the download location
- To restore settings from a backup file:
 - Click **Browse** under the **Restore Saved Settings from a File** heading. Locate and select the previously saved backup file (by default, netgear.cfg).
 - Click **Retrieve**. A window will appear with the message that the wireless access point has been successfully restored to its previous settings. The wireless access point will restart. This will take about one minute.

	<p>Warning: Do not try to go online, turn off the Access Point, shut down the computer or do anything else to the Access Point until it finishes restarting. When the Test light turns off, wait a few more seconds before doing anything with the Access Point.</p>
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- Close the message window.
- To erase the current settings and reset the wireless access point to the original factory default settings:
 - Click **Restore**. The default factory settings will be restored.

- A list of the factory default settings can be found in [Appendix A, “Default Settings and Technical Specifications”](#).

	Warning: Do not try to go online, turn off the Access Point, shut down the computer or do anything else to the Access Point until it finishes restarting. When the Test light turns off, wait a few more seconds before doing anything with the Access Point.
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Rebooting the RangeMax NEXT

You can reboot the wireless access point from the browser interface or by using the reset button on the rear panel.

To reboot the wireless access point from the user interface:

1. From the main menu of the browser interface, click **Reboot AP** under the **Management** menu on the left navigation pane. The **Reboot AP** screen will display..

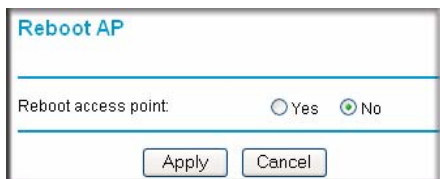


Figure 4-5

2. Select the **Yes** radio button, and then click **Apply**.

Viewing Available Wireless Station List

The Available Wireless Station List contains a table of all IP devices associated with this wireless access point network defined by its Wireless Network Name (SSID).

To view the list of available wireless stations:


1. From the main menu of the browser interface, select **Available Wireless Station List** under the **Information** menu of the left navigation pane. The **Available Wireless Station List** will display.

2. Click **Refresh** to update the list and force the wireless access point to look for associated devices.



Figure 4-6

- For each device, the table shows the Station ID, MAC address, IP Address, and Status (whether the device is allowed to communicate with the wireless access point or not).
- If the wireless access point is rebooted, the table data is lost until the wireless access point rediscovers the devices.

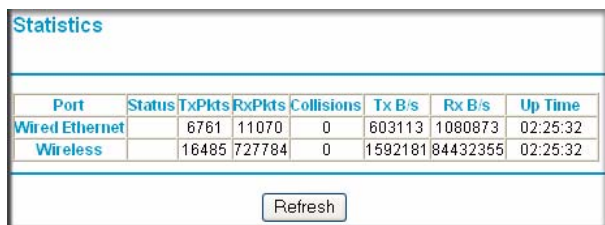
	<p>Note: A wireless network can include multiple wireless access points, all using the same network name (SSID). This extends the reach of the wireless network and lets users roam from one access point to another which provides seamless network connectivity. Under these circumstances, be aware that only the stations associated with this wireless access point will be presented in the Available Wireless Station List.</p>
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Viewing Statistics

The Statics screen displays both wired and wireless interface network traffic.

To display statics for the wireless access point:

1. Select **Statistics** under the **Information** menu on the left information pane. The **Statistics** screen will display.



Port	Status	TxPkts	RxPkts	Collisions	Tx B/s	Rx B/s	Up Time
Wired Ethernet		6761	11070	0	603113	1080873	02:25:32
Wireless		16485	727784	0	1592181	84432355	02:25:32

Figure 4-7

- The **Wired Ethernet** section of the table displays traffic statistics for the wired Ethernet interface.
 - The **Wireless** section displays traffic statistics for the wireless interface.
2. Click **Refresh** to update the current statistics.

Advanced Wireless Settings

We recommend that the Advanced Wireless Settings should be modified only by an administrator very familiar with the ramifications of changing the Wireless LAN parameters. If set incorrectly, they can adversely affect the performance or connectivity of your wireless access point. The default settings should be adequate in most situations. Following is a description of each of the Wireless LAN Parameters.

- **RTS Threshold.** The Request to Send Threshold packet size determines if the wireless access point should use the CSMA/CD (Carrier Sense Multiple Access with Collision Detection) mechanism or the CSMA/CA mechanism for packet transmission:
 - With the CSMA/CD transmission mechanism, the transmitting station sends out the actual packet as soon as it has waited for the silence period.
 - With the CSMA/CA transmission mechanism, the transmitting station sends out an RTS packet to the receiving station, and waits for the receiving station to send back a CTS (Clear to Send) packet before sending the actual packet data.

The default value is 2346.

- **Fragmentation Length.** This is the maximum packet size used for fragmentation. Packets larger than the size programmed in this field will be fragmented. The Fragment Threshold value must be larger than the RTS Threshold value.

The default value is 2346

- **Beacon Interval.** The Beacon Interval specifies the interval of time between 20ms and 1000ms for each beacon transmission.

The default value is 100 ms.

- **DTIM Interval.** The Delivery Traffic Indication Message Interval specifies the data beacon rate between 1 and 255.

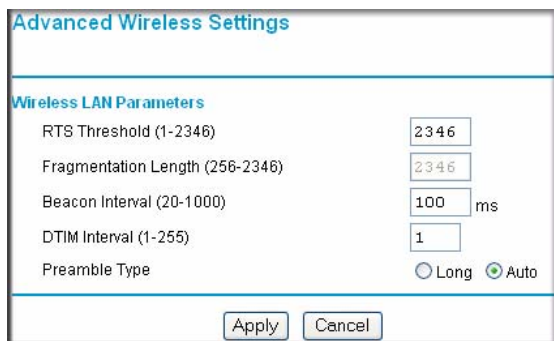
The default value is 1.

- **Preamble Type.** A long transmit preamble may provide a more reliable connection or slightly longer range. A short transmit preamble gives better performance. The Auto setting will automatically handle both long and short preamble.

The default setting is Auto.

To modify the Wireless LAN parameters:

1. Select **Wireless Settings** under the **Advanced** menu on the left navigation pane of the user interface. The **Advanced Wireless Settings** screen will display.



The screenshot shows a web interface titled "Advanced Wireless Settings". Under the "Wireless LAN Parameters" section, there are five settings:

RTS Threshold (1-2346)	<input type="text" value="2346"/>
Fragmentation Length (256-2346)	<input type="text" value="2346"/>
Beacon Interval (20-1000)	<input type="text" value="100"/> ms
DTIM Interval (1-255)	<input type="text" value="1"/>
Preamble Type	<input type="radio"/> Long <input checked="" type="radio"/> Auto

At the bottom of the form are two buttons: "Apply" and "Cancel".

Figure 4-8

2. Make the changes to the Wireless LAN Parameters based on the field descriptions outlined above.
3. Click **Apply** for your changes to take effect.