Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for NETGEAR KWGR614. You'll find the answers to all your questions on the NETGEAR KWGR614 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NETGEAR KWGR614
User guide NETGEAR KWGR614
Operating instructions NETGEAR KWGR614
Instructions for use NETGEAR KWGR614
Instruction manual NETGEAR KWGR614

54Mbps Wireless Router
Model KWGR614
Reference Manual

NETGEAR

NETGEAR, Inc.
4500 Great America Parkway
Santa Clara, CA 95054 USA

September 2006

*Manual abstract:*

*@@@@Other brand and product names are registered trademarks or trademarks of their respective holders. Statement of Conditions In the interest of improving internal design, operational function, and/or reliability, NETGEAR reserves the right to make changes to the products described in this document without notice. NETGEAR does not assume any liability that may occur due to the use or application of the product(s) or circuit layout(s) described herein. Maximum Wireless Signal Rate Derived from IEEE Standard 802.11 Specifications Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Federal Communications Commission (FCC) Compliance Notice: Radio Frequency Notice This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: 1. This device may not cause harmful interference. 2.*

*This device must accept any interference received, including interference that may cause undesired operation. Placement and Range Guidelines Indoors, computers can connect over 802.11 wireless networks at a maximum range of 500 feet (152.4 m) for 802.11b devices.*

*However, the operating distance or range of your wireless connection can vary significantly, based on the physical placement of the wireless access point. For best results, identify a location for your wireless access point according to these guidelines: · · · Away from potential sources of interference, such as PCs, large metal surfaces, microwaves, and 2.4 GHz cordless phones. · In an elevated location such as a high shelf that is near the center of the wireless coverage area for all mobile devices. Failure to follow these guidelines can result in significant performance degradation or inability to wirelessly connect to the wireless access point.*

*To meet FCC and other national safety guidelines for RF exposure, the antennas for this device must be installed to ensure a minimum separation distance of 20cm (7.9 in.) from persons. Further, the antennas shall not be collocated with other transmitting structures. FCC Statement: DECLARATION OF CONFORMITY We Netgear, 4500 Great America Parkway, Santa Clara, CA 95054, USA, Tel: +1 408 907 8000, declare under our sole responsibility that the product(s) KWGR614 (Model Designation) Wireless Router (Product Name) complies with Part 15 of FCC Rules. ii v1.2, September 2006 Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. FCC Requirements for Operation in the United States Radio Frequency Interference Warnings & Instructions This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.*

*However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures: · · · · · Reorient or locate the receiving antenna. · Increase the separation between the equipment and receiver. · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio/TV technician for help. RF Exposure Warning for North America, and Australia Warning! To meet FCC and other national safety guidelines for RF exposure, the antennas for this device (see below) must be installed to ensure a minimum separation distance of 20cm (7.9 in.) from persons. Further, the antennas shall not be collocated with other antennas or radio transmitters. CAUTION: Any changes of modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment iii v1.*

*2, September 2006 European Union Statement of Compliance Hereby, NETGEAR, Inc. declares that this wireless router is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. Èesky [Czech] Dansk [Danish] Deutsch [German] Eesti [Estonian] English NETGEAR, Inc. tímto prohlasuje, ze tento 54Mbps Wireless Router Model KWGR614 je ve shodì se základními pozadavky a dalsími pøíslusnými ustanoveními smìrnice 1999/ 5/ES. Undertegnede NETGEAR, Inc.*

*erklærer herved, at følgende udstyr 54Mbps Wireless Router Model KWGR614 overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF. Hiermit erklärt NETGEAR, Inc., dass sich das Gerät 54Mbps Wireless Router Model KWGR614 in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet. Käesolevaga kinnitab NETGEAR, Inc. seadme 54Mbps Wireless Router Model KWGR614 vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.*

*Hereby, NETGEAR, Inc., declares that this 54Mbps Wireless Router Model KWGR614 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. Por medio de la presente NETGEAR, Inc. declara que el 54Mbps Wireless Router Model KWGR614 cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE. NETGEAR, Inc. 54Mbps Wireless Router Model KWGR614 1999/5/. Par la présente NETGEAR, Inc. déclare que l'appareil 54Mbps Wireless Router Model KWGR614 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE. Con la presente NETGEAR, Inc. dichiara che questo 54Mbps Wireless Router Model KWGR614 è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.*

*Ar so NETGEAR, Inc. deklarç, ka 54Mbps Wireless Router Model KWGR614 atbilst Direktîvas 1999/5/EK bûtiskajâm prasîbâm un citiem ar to saistîtajiem noteikumiem. Siuo NETGEAR, Inc. deklaruoja, kad sis 54Mbps Wireless Router Model KWGR614 atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas. Español [Spanish] [Greek] Français [French] Italiano [Italian] Latviski [Latvian] Lietuviø [Lithuanian] iv v1.*

2, September 2006 Nederlands [Dutch] Malti [Maltese] Magyar [Hungarian] Polski [Polish] Português [Portuguese] Slovensko [Slovenian] Slovensky [Slovak] Suomi [Finnish] Svenska [Swedish] Hierbij verklaart NETGEAR, Inc. dat het toestel 54Mbps Wireless Router Model KWGR614 in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG. Hawnhekk, NETGEAR, Inc., jiddikjara li dan 54Mbps Wireless Router Model KWGR614 jikkonforma mal-tiijiet essenzjali u ma provvedimenti orajn relevanti li hemm fid-Dirrettiva 1999/5/EC. Alulírott, NETGEAR, Inc. nyilatkozom, hogy a 54Mbps Wireless Router Model KWGR614 megfelel a vonatkozó alapvetõ követelményeknek és az 1999/5/EC irányelv egyéb elõírásainak. Niniejszym NETGEAR, Inc. ooewiadcza, ¿e 54Mbps Wireless Router Model KWGR614 jest zgodny z zasadniczymi wymogami oraz pozosta ³ymi stosownymi postanowieniami Dyrektywy 1999/5/EC. NETGEAR, Inc. declara que este 54Mbps Wireless Router Model KWGR614 está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

NETGEAR, Inc. izjavlja, da je ta 54Mbps Wireless Router Model KWGR614 v skladu z bistvenimi zahtevami in ostalimi relevantnimi doloèili direktive 1999/5/ES. NETGEAR, Inc. týmto vyhlasuje, ze 54Mbps Wireless Router Model KWGR614 spåòa základné poziadavky a vsetky príslusné ustanovenia Smernice 1999/5/ES. NETGEAR, Inc.

vakuuttaa täten että 54Mbps Wireless Router Model KWGR614 tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen. Härmed intygar NETGEAR, Inc. att denna [utrustningstyp] står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG. A printed copy of the EU Declaration of Conformity certificate for this product is provided in the KWGR614 product package. Bestätigung des Herstellers/Importeurs Es wird hiermit bestätigt, daß das 54Mbps Wireless Router Model KWGR614 gemäß der im BMPT-AmtsblVfg 243/ 1991 und Vfg 46/1992 aufgeführten Bestimmungen entstört ist. Das vorschriftsmäßige Betreiben einiger Geräte (z.B. Testsender) kann jedoch gewissen Beschränkungen unterliegen. Lesen Sie dazu bitte die Anmerkungen in der Betriebsanleitung. Das Bundesamt für Zulassungen in der Telekommunikation wurde davon unterrichtet, daß dieses Gerät auf den Markt gebracht wurde und es ist berechtigt, die Serie auf die Erfüllung der Vorschriften hin zu überprüfen.

Certificate of the Manufacturer/Importer It is hereby certified that the 54Mbps Wireless Router Model KWGR614 has been suppressed in accordance with the conditions set out in the BMPT-AmtsblVfg 243/1991 and Vfg 46/1992. The operation of some equipment (for example, v v1.2, September 2006 test transmitters) in accordance with the regulations may, however, be subject to certain restrictions. Please refer to the notes in the operating instructions. Federal Office for Telecommunications Approvals has been notified of the placing of this equipment on the market and has been granted the right to test the series for compliance with the regulations. Voluntary Control Council for Interference (VCCI) Statement This equipment is in the second category (information equipment to be used in a residential area or an adjacent area thereto) and conforms to the standards set by the Voluntary Control Council for Interference by Data Processing Equipment and Electronic Office Machines aimed at preventing radio interference in such residential areas. When used near a radio or TV receiver, it may become the cause of radio interference. Read instructions for correct handling. Customer Support Refer to the Support Information Card that shipped with your 54Mbps Wireless Router Model KWGR614. World Wide Web NETGEAR maintains a World Wide Web home page that you can access at the universal resource locator (URL) http://www.

netgear.com. A direct connection to the Internet and a Web browser such as Internet Explorer or Netscape are required. Product and Publication Details Model Number: Publication Date: Product Family: Product Name: Home or Business Product: Language: Publication Part Number: Publication Version Number: 1.2 KWGR614 September 2006 Wireless Router 54Mbps Wireless Router Model KWGR614 Home English vi v1.

2, September 2006 Contents 54Mbps Wireless Router Model KWGR614 Reference Manual About This Manual Audience, Scope, Conventions, and Formats

About This Manual

This section describes the intended audience, scope, conventions, and formats of this manual.

Audience, Scope, Conventions, and Formats

This reference manual assumes that the reader has basic to intermediate computer and Internet skills.

However, basic computer network, Internet, firewall, and VPN technologies tutorial information is provided in the Appendices and on the Netgear website.

This guide uses the following typographical conventions: Table 1. Typographical Conventions italics bold fixed Emphasis, books, CDs, URL names User input Screen text, file and server names, extensions, commands, IP addresses This guide uses the following formats to highlight special messages: Note: This format is used to highlight information of importance or special interest.

You're reading an excerpt. Click here to read official NETGEAR KWGR614 user guide

http://yourpdfguides.com/dref/2471586

*Tip: This format is used to highlight a procedure that will save time or resources. Warning: Ignoring this type of note may result in a malfunction or damage to the equipment.*

*xi v1.2, September 2006 54Mbps Wireless Router Model KWGR614 Reference Manual Danger: This is a safety warning. Failure to take heed of this notice may result in personal injury or death. This manual is written for the 54Mpbs Wireless Router according to these specifications: Table 2. Manual Scope Product Version Manual Publication Date 54Mbps Wireless Router Model KWGR614 September 2006 Note: Product updates are available on the NETGEAR, Inc. Web site at http://www.netgear.co.kr. How to Use This Manual The HTML version of this manual includes the following: · · Buttons, at a time and , for browsing forwards or backwards through the manual one page A button that displays the table of contents and an button.*

*Double-click on a link in the table of contents or index to navigate directly to where the topic is described in the manual. A model. button to access the full NETGEAR, Inc. online knowledge base for the product · · Links to PDF versions of the full manual and individual chapters. xii v1.2, September 2006 54Mbps Wireless Router Model KWGR614 Reference Manual How to Print this Manual To print this manual you can choose one of the following several options, according to your needs. · Printing a Page in the HTML View. Each page in the HTML version of the manual is dedicated to a major topic. Use the Print button on the browser toolbar to print the page contents. · Printing a Chapter.*

*Use the PDF of This Chapter link at the top left of any page. -- Click the PDF of This Chapter link at the top right of any page in the chapter you want to print. The PDF version of the chapter you were viewing opens in a browser window. -- Your computer must have the free Adobe Acrobat reader installed in order to view and print PDF files. The Acrobat reader is available on the Adobe Web site at http://www.*

*adobe.com. -- Click the print icon in the upper left of the window. Tip: If your printer supports printing two pages on a single sheet of paper, you can save paper and printer ink by selecting this feature. · Printing the Full Manual.*

*Use the Complete PDF Manual link at the top left of any page. -- Click the Complete PDF Manual link at the top left of any page in the manual. The PDF version of the complete manual opens in a browser window. -- Click the print icon in the upper left of the window. Tip: If your printer supports printing two pages on a single sheet of paper, you can save paper and printer ink by selecting this feature. xiii v1.2, September 2006 54Mbps Wireless Router Model KWGR614 Reference Manual xiv v1.2, September 2006 Chapter 1 Introduction This chapter lists the package contents for the 54Mbps Wireless Router Model KWGR614, describes the front and rear panel layouts, and describes your NETGEAR maintenance and support benefits. Package Contents The product package should contain the following items: · 54Mbps Wireless Router Model KWGR614. · Plastic feet for standing the wireless router on end.*

*· AC power adapter. · Category 5 (CAT5) Ethernet cable. · Resource CD, including: -- The Setup Manual -- Application Notes and other helpful information. · Registration and Warranty Card. · Support Information Card. If any of the parts are incorrect, missing, or damaged, contact your NETGEAR dealer. Keep the carton, including the original packing materials, in case you need to return the router for repair. 1-1 v1.2, September 2006 54Mbps Wireless Router Model KWGR614 Reference Manual The Router's Front Panel The front panel of the 54Mpbs Wireless Router contains the status lights described below. 2 4 1 3 5 Figure 1-1 You can use the status lights to verify connections.*

*Viewed from left to right, the table below describes the lights on the front panel of the router. Table 1-1. Status Light Descriptions LED 1. Power 2. Test 3. Wireless Activity On -- Amber Off On Off On Off Description The router integrity test is running. Power is not supplied to the router. The system is initializing or performing a firmware upgrade. The system is ready and running. Indicates that the Wireless port is initialized.*

*Indicates that the Wireless port is disabled. 1-2 v1.2, September 2006 Introduction 54Mbps Wireless Router Model KWGR614 Reference Manual Table 1-1. Status Light Descriptions On -- Amber 4. Internet On -- Green Blink -- Green The Ethernet cable is connected but the wireless router has not gotten an Internet address. The wireless router has an Internet address. Data is being communicated with the Internet. The local port is connected to a 100 Mbps device. Data is being transmitted at 100 Mbps. The local port has detected a link with a 10 Mbps device.*

*Data is being transmitted at 10 Mbps. No link is detected on this port. On (Green) Blink (Green) 5. LAN (Local Area Network) On (Amber) Blink (Amber) Lights 1-4 Off The Router's Rear Panel The rear panel of the 54Mbps Wireless Router Model KWGR614 contains these connections. 5 3 2 1 4 Figure 1-2 Viewed from left to right, the rear panel contains the following features: 1. AC power adapter port 2. Internet (WAN) Ethernet port for connecting the router to a cable or ADSL modem 3. Four Local (LAN) 10/100 Mbps Ethernet ports for connecting the router to the local computers Introduction v1.2, September 2006 1-3 54Mbps Wireless Router Model KWGR614 Reference Manual 4. Factory Default Reset push button for Restoring the Default Configuration and Password 5.*

*Wireless antennae Installing the 54Mpbs Wireless Router For installation instructions refer to the setup manual that came on the CD. Maintenance and Support NETGEAR offers the following features to help you maximize your use of the 54Mpbs Wireless Router: · · Flash memory for firmware upgrades Free technical support seven days a week, twenty-four hours a day 1-4 v1.2, September 2006 Introduction Chapter 2 Wireless Configuration This chapter describes how to configure the wireless features of your 54Mpbs Wireless Router. In planning your wireless network, you should consider the level of security required. You should also select the physical placement of your wireless router in order to maximize the network speed.*

*For further information on wireless networking, see "Wireless Communications" in Appendix B. Observing Performance, Placement, and Range Guidelines The operating distance or range of your wireless connection can vary significantly based on the physical placement of the wireless router. The latency, data throughput performance, and notebook power consumption of wireless adapters also vary depending on your configuration choices. Note: Failure to follow these guidelines can result in significant performance degradation or inability to wirelessly connect to the router.*

*For complete range and performance specifications, please see Appendix A, "Technical Specifications".*
*For best results, place your wireless router as follows: · Near the center of the area in which your computers operates. · In an elevated location such as a high shelf where the wirelessly connected computers have line-of-sight access (even if through walls). · Away from sources of interference, such as computers, microwaves, and 2.4 GHz cordless phones. · Away from large metal surfaces. The time it takes to establish a wireless connection can vary depending on both your security settings and placement. Wired Equivalent Privacy (WEP) connections can take slightly longer to establish. Also, WEP and Wi-Fi Protected Access, Pre-Shared Key (WPA-PSK and WPA2-PSK) encryption can consume more battery power on a notebook computer. When used on a metallic surface, Multiple Input, Multiple Output (MIMO) units must be oriented vertically to ensure proper operation: Wireless Configuration v1.2, September 2006 2-1 54Mbps Wireless Router Model KWGR614 Reference Manual Implementing Appropriate Wireless Security Note: Indoors, computers can connect over 802.*

*11b/g wireless networks at a range of up to three hundred feet. Such distances can allow for others outside of your immediate area to access your network. Unlike wired network data, your wireless data transmissions can be received well beyond your walls by anyone with a compatible adapter. For this reason, use the security features of your wireless equipment. The 54Mpbs Wireless Router provides highly effective security features which are covered in detail in this chapter. Deploy the security features appropriate to your needs. KWGR614 Figure 2-1 There are several ways you can enhance the security of your wireless network: · Restrict access based on MAC address. You can restrict access to only trusted computers so that unknown computers cannot wirelessly connect to the KWGR614. MAC address filtering adds an obstacle against unwanted access to your network, but the data broadcast over the wireless link is fully exposed. · Turn off the broadcast of the Wireless Network Name SSID.*

*If you disable broadcast of the SSID, only devices that have the correct SSID can connect. This nullifies the wireless network `discovery' feature of some products such as Windows XP, but the data is still fully exposed to a determined snoop using specialized test equipment like wireless sniffers. · WEP. Provides data security. WEP Shared Key authentication and WEP data encryption will block all but the most determined eavesdropper.*

*2-2 v1.2, September 2006 Wireless Configuration 54Mbps Wireless Router Model KWGR614 Reference Manual · · WPA-PSK and WPA2-PSK. Provides strong data security. WPA-PSK and WPA2-PSK will block eavesdropping. Because these are new standards, wireless device driver and software availability may be limited.*

*Turn off the wireless LAN. If you disable the wireless LAN, wireless devices cannot communicate with the router at all. You might choose to turn off the wireless LAN when you are away and others on the network all use wired connections. Understanding Wireless Settings To configure the Wireless settings of your wireless router, type http://www.routerlogin.net into your internet browser. Enter the default user name of admin and default password of password, or whatever LAN address and password you have set up. Click the Wireless link in the main menu of the browser interface. The Wireless Settings menu appears, as shown below. Figure 2-2 Wireless Configuration v1.*

*2, September 2006 2-3 54Mbps Wireless Router Model KWGR614 Reference Manual · Name (SSID). The SSID is also known as the wireless network name. Enter a value of up to 32 alphanumeric characters. In a setting where there is more than one wireless network, different wireless network names provide a means for separating the traffic. Any device you want to participate in a particular wireless network will need to use this SSID for that network. The KWGR614 default SSID is: NETGEAR. Region. This field identifies the region where the KWGR614 can be used. It may not be legal to operate the wireless features of the wireless router in a region other than one of those identified in this field. · Note: The region selection feature may not be available in all countries.*

*· Channel. This field determines which operating frequency is used. It should not be necessary to change the wireless channel unless you notice interference problems with another nearby access point. For more information on the wireless channel frequencies, please see "Wireless Communications" in Appendix B. Mode.*

*The "g and b" mode provides backward compatibility with the slower 802.11b wireless devices while still enabling 802.11g communications. The "b only" mode supports the slower 802.11b wireless mode only.*

*Similarly, the "g only" mode supports the 802.11g wireless mode only. Security Options. These options are the wireless security features you can enable. The table below identifies the various basic wireless security options. A full explanation of these standards is available in "Wireless Communications" in Appendix B. · · 2-4 v1.2, September 2006 Wireless Configuration 54Mbps Wireless Router Model KWGR614 Reference Manual Table 2-1. Basic Wireless Security Options Field None WEP Description No wireless security. WEP offers the following options: · Open System With Open Network Authentication and 64- or 128-bit WEP Data Encryption, the KWGR614 does perform 64- or 128-bit data encryption but does not perform any authentication.*

*· Shared Key Shared Key authentication encrypts the SSID and data. Choose the Encryption Strength (64- or 128-bit data encryption). Manually enter the key values or enter a word or group of printable characters in the Passphrase box. Manually entered keys are case sensitive but passphrase characters are not case sensitive. Note: Not all wireless adapter configuration utilities support passphrase key generation. · Auto The router automatically detects whether Open System or Shared Key is being used. WPA-PSK WPA-Pre-shared Key does perform authentication. WPA-PSK uses TKIP (Temporal Key WPA2-PSK Integrity Protocol) data encryption and WPA2-PSK uses AES (Advanced Encryption Standard) data encryption. Both dynamically change the encryption keys, making them nearly impossible to circumvent. Enter a word or group of printable characters in the Passphrase box.*

*These characters are case sensitive. Note: Not all wireless adapter configuration utilities support WPA. Furthermore, client software is required on the client. Windows XP Service Pack 2 and Windows XP Service Pack 1 with the WPA patch do include the client software that supports WPA. Nevertheless, the wireless adapter hardware and driver must also support WPA.*

Wireless Configuration v1.2, September 2006 2-5 54Mbps Wireless Router Model KWGR614 Reference Manual To configure the advanced wireless settings of your wireless router, click the Wireless Setup link in the Advanced section of the main menu of the browser interface. The Advanced Wireless Settings menu appears, as shown below. Figure 2-3 · · Enable Wireless Router Radio. If you disable the wireless router radio, wireless devices cannot connect to the KWGR614.

Enable SSID Broadcast. If you disable broadcast of the SSID, only devices that have the correct SSID can connect. Disabling SSID broadcast nullifies the wireless network `discovery' feature of some products such as Windows XP. Wireless Card Access List. When the Trusted PCs Only radio button is selected, the KWGR614 checks the MAC address of the wireless station and only allows connections to computers identified on the trusted computers list. Note: The Fragmentation Threshold, CTS/RTS Threshold, and Preamble Mode options are reserved for wireless testing and advanced configuration only. Do not change these settings. · 2-6 v1.2, September 2006 Wireless Configuration 54Mbps Wireless Router Model KWGR614 Reference Manual Information to Gather Before Changing Basic Wireless Settings Before customizing your wireless settings, print this form and record the following information. If you are working with an existing wireless network, the person who set up or is responsible for the network must provide this information.

Otherwise, you must choose the settings for your wireless network. Either way, record the settings for your wireless network in the spaces below. · Wireless Network Name (SSID): _____ The SSID identifies the wireless network. You can use up to 32 alphanumeric characters. The SSID is case sensitive. The SSID in the wireless adapter card must match the SSID of the wireless router. In some configuration utilities (such as in Windows XP), the term "wireless network name" is used instead of SSID. If WEP Authentication is Used, circle one: Open System, Shared Key, or Auto. Note: If you select Shared Key, the other devices in the network will not connect unless they are set to Shared Key as well and are configured with the correct key.   WEP Encryption key size.

Choose one: 64-bit or 128-bit. Again, the encryption key size must be the same for the wireless adapters and the wireless router. Data Encryption (WEP) Keys. There are two methods for creating WEP data encryption keys. Whichever method you use, record the key values in the spaces below. · Passphrase method. _____ These characters are case sensitive. Enter a word or group of printable characters and click the Generate Keys button. Not all wireless devices support the passphrase method. · Wireless Configuration v1.

2, September 2006 2-7 54Mbps Wireless Router Model KWGR614 Reference Manual · Manual method. These values are not case sensitive. For 64-bit WEP, enter 10 hex digits (any combination of 0-9 or a-f). For 128-bit WEP, enter 26 hex digits. Key 1: _____ Key 2: _____ Key 3: _____ Key 4: _____ · If WPA-PSK or WPA2-PSK Authentication is Used:  Passphrase: _____ These characters are case sensitive. Enter a word or group of printable characters. When you use WPA-PSK, the other devices in the network will not connect unless they are set to WPA-PSK as well and are configured with the correct Passphrase. Similarly, when you use WPA2-PSK, the other devices in the network will not connect unless they are set to WPA2-PSK and are configured with the correct Passphrase. Use the procedures described in the following sections to configure the KWGR614. Store this information in a safe place.

Default Factory Settings When you first receive your KWGR614, the default factory settings are in effect as shown below. You can restore these defaults with the Factory Default Restore button on the rear panel. After you install the 54Mpbs Wireless Router, use the procedures below to customize any of the settings to better meet your networking needs. FEATURE Wireless Router Radio Wireless Access List (MAC Filtering) SSID broadcast SSID 802.11b/g RF Channel Mode Authentication Type WEP DHCP Server DHCP range DEFAULT FACTORY SETTINGS Enabled All wireless stations allowed Enabled NETGEAR 6 802.11b/g/g and b Automatic Disabled Enabled 192.168.1.2 to 192.168.

1.254 2-8 v1.2, September 2006 Wireless Configuration 54Mbps Wireless Router Model KWGR614 Reference Manual How to Set Up and Test Basic Wireless Connectivity Note: If you use a wireless computer to configure WPA settings, you will be disconnected when you click Apply. Reconfigure your wireless adapter to match the new settings or access the wireless router from a wired computer to make any further changes. Follow the instructions below to set up and test basic wireless connectivity.

Once you have established basic wireless connectivity, you can enable security settings appropriate to your needs. 1. Log in to the KWGR614 wireless router at URL http://www.routerlogin.net.

Enter the default user name of admin and default password of password, or whatever LAN address and password you have set up. 2. Click Wireless Settings in the Setup section of the main menu of the KWGR614 wireless router. Figure 2-4 Wireless Configuration v1.2, September 2006 2-9 54Mbps Wireless Router Model KWGR614 Reference Manual 3. Choose a suitable descriptive name for the wireless network name (SSID). In the SSID box, enter a value of up to 32 alphanumeric characters. The default SSID is NETGEAR. Note: The SSID is case sensitive; NETGEAR is not the same as nETgear. Also, the SSID of any wireless access adapters must match the SSID you configure in the 54Mbps Wireless Router Model KWGR614.

If they do not match, you will not get a wireless connection to the KWGR614. 4. Set the Region. Select the region in which the wireless interface will operate. 5. Set the Channel. The default channel is 6. This field determines which operating frequency to use. It should not be necessary to change the wireless channel unless you notice interference problems with another nearby wireless router or access point. Select a channel that is not being used by any other wireless networks within several hundred feet of your wireless router.

For more information on the wireless channel frequencies please see "Wireless Communications" in Appendix B. 6. For initial configuration and testing, leave the security option set to "Disable". 7. Click Apply to save your changes.

Note: If you are configuring the wireless router from a wireless computer and you change the wireless router's SSID, channel, or security settings, you will lose your wireless connection when you click Apply.

You must then change the wireless settings of your computer to match the wireless router's new settings. 8. Configure and test your computers for wireless connectivity. Program the wireless adapter of your computers to have the same SSID and channel that you configured in the router.

Check that they have a wireless link and are able to obtain an IP address by DHCP from the wireless router. Warning: The Network Name (SSID) is case sensitive. If NETGEAR is the Network Name (SSID) in your wireless router, you must enter NETGEAR in your computer's wireless settings. Typing nETgear will not work. Once your computers have basic wireless connectivity to the wireless router, you can configure the advanced wireless security functions of the wireless router. 2-10 v1.2, September 2006 Wireless Configuration 54Mbps Wireless Router Model KWGR614 Reference Manual How to Configure WEP Wireless Security To configure WEP data encryption, follow these steps: Note: If you use a wireless computer to configure WEP settings, you will be disconnected when you click Apply. You must then either configure your wireless adapter to match the wireless router WEP settings or access the wireless router from a wired computer to make any further changes. 1. Log in to the KWGR614 wireless router using URL http://www.

routerlogin.net. Enter the default user name of admin and default password of password, or whatever LAN address and password you have set up. 2. Click Wireless Settings in the main menu of the KWGR614 wireless router. 3. From the Security Options menu, select WEP. The WEP options display. Wireless Configuration v1.2, September 2006 2-11 54Mbps Wireless Router Model KWGR614 Reference Manual 4.

Select the Authentication Type and Encryption Strength from the drop-down lists. Figure 2-5 5. You can manually or automatically program the four data encryption keys. These values must be identical on all computers and Access Points in your network. 2-12 v1.

2, September 2006 Wireless Configuration 54Mbps Wireless Router Model KWGR614 Reference Manual · · Automatic--enter a word or group of printable characters in the Passphrase box and click the Generate button. The passphrase is case sensitive; NETGEAR is not the same as nETgear. The four key boxes are automatically populated with key values. Manual--enter ten hexadecimal digits (any combination of 0-9, a-f, or A-F). These entries are not case sensitive; AA is the same as aa.

Select which of the four keys to activate. Please see "Wireless Communications" in Appendix B for a full explanation of each of these options, as defined by the IEEE 802.11 wireless communication standard. 6. Click Apply to save your settings. How to Configure WPA-PSK or WPA2-PSK Wireless Security Note: Not all wireless adapters support WPA. Furthermore, client software is also required. Windows XP and Windows 2000 with Service Pack 3 do include WPA support. Nevertheless, the wireless adapter hardware and driver must also support WPA. For instructions on configuring wireless computers or PDAs (Personal Digital Assistants) for WPA-PSK security, consult the documentation for the product you are using.

To configure WPA-PSK, follow these steps: Wireless Configuration v1.2, September 2006 2-13 54Mbps Wireless Router Model KWGR614 Reference Manual 1. Click Wireless Settings in the Setup section of the main menu and select one of the WPAPSK or WPA2-PSK options for the Security Type. The third option (WPA/WPA2-PSK is the most flexible, since it allows clients using either WPA-PSK or WPA2-PSK. Figure 2-6 2. In the Security Encryption section, select an encryption method. You have a choice between TKIP, AES, and AUTO. TKIP (Temporal Key Integrity Protocol) scrambles the encryption keys using a hashing algorithm and uses integrity checking to ensure that the keys are not tampered with. TKIP was introduced with WPA-PSK. AES (Advanced Encryption Standard) was adopted by the National Institute of Standards and Technology on May 26, 2002, is part of the IEEE 802.

11i standard, and is the default encryption method for WPA2-PSK. The AUTO setting allows the wireless router to connect to wireless clients using either the TKIP or AES encryption method. 3. Enter a word or group of 8-63 printable characters in the Passphrase box. 2-14 v1.

2, September 2006 Wireless Configuration 54Mbps Wireless Router Model KWGR614 Reference Manual 4. Click Apply to save your settings. Note: If you use a wireless computer to configure WPA-PSK or WPA2-PSK settings, you will be disconnected when you click Apply. You must then either configure your wireless adapter to match the wireless router WPA settings or access the wireless router from a wired computer to make any further changes. How to Restrict Wireless Access by MAC Address To restrict access based on MAC addresses, follow these steps: 1.

Log in to the KWGR614 wireless router at URL http://www.routerlogin.net. Enter the default user name of admin and default password of password, or whatever LAN address and password you have set up. Note: When configuring the wireless router from a wireless computer whose MAC address is not in the Trusted PC list, if you select Turn Access Control On, you will lose your wireless connection when you click on Apply. You must then access the wireless router from a wired computer or from a wireless computer which is on the access control list to make any further changes. 2. Click Wireless Settings in the Advanced section of the main menu of the KWGR614 wireless router. 3. From the Wireless Settings menu, click Setup Access List to display the Wireless Access menu shown below.

Figure 2-7 Wireless Configuration v1.2, September 2006 2-15 54Mbps Wireless Router Model KWGR614 Reference Manual 4. Select the Turn Access Control On check box. 5. Click Add to add a wireless device to the wireless access control list. The Wireless Card Access Setup dialog displays. Figure 2-8 6. In the Available Wireless Cards list, either select from the list of available wireless cards the KWGR614 wireless router has found in your area, or enter the MAC address and device name for a device you plan to use. You can usually find the MAC address printed on the wireless adapter. Note: You can copy and paste the MAC addresses from the router's Attached Devices menu into the MAC Address box of this menu.

To do this, configure each wireless computer to obtain a wireless link to the wireless router. The computer should then appear in the Attached Devices menu. 7. Click Add to add this wireless device to the Wireless Card Access List. The screen changes back to the list screen.

8. Repeat step 5 to step 7 for each additional device you wish to add to the list. 9. Be sure to click Apply to save your Wireless Card Access List settings. Now, only devices on this list will be allowed to wirelessly connect to the wireless router.

2-16 v1.2, September 2006 Wireless Configuration Chapter 3 Content Filtering This chapter describes how to use the content filtering features of the 54Mbps Wireless Router Model KWGR614 to protect your network.

These features can be found by clicking on the Content Filtering heading in the Main Menu of the browser interface. Content Filtering Overview The 54Mbps Wireless Router Model KWGR614 provides you with Web content filtering options, plus browsing activity reporting and instant alerts via e-mail. Parents and network administrators can establish restricted access policies based on time of day, Web addresses and Web address keywords. You can also block Internet access by applications and services, such as chat or games. To configure these features of your router, click on the subheadings under the Content Filtering heading in the Main Menu of the browser interface at http://www.routerlogin.net. The subheadings are described below: 3-1 v1.

2, September 2006 54Mbps Wireless Router Model KWGR614 Reference Manual Blocking Access to Internet Sites The 54Mpbs Wireless Router allows you to restrict access based on Web addresses and Web address keywords. Up to 255 entries are supported in the Keyword list. The Block Sites menu is shown in Figure 3-1 below: Figure 3-1 To enable keyword blocking: 1. Select either "Per Schedule" or "Always" 2. Click Apply. 3. If you want to block by schedule, be sure to specify a time period in the Schedule menu, as described in "Scheduling When Blocking Will Be Enforced" on page 3-6. 3-2 v1.2, September 2006 Content Filtering 54Mbps Wireless Router Model KWGR614 Reference Manual To add a keyword or domain, type it in the Keyword box, click Add Keyword, then click Apply. To delete a keyword or domain, select it from the list, click Delete Keyword, then click Apply.

Keyword application examples: · · · If the keyword "XXX" is specified, the URL <http://www.badstuff.com/xxx.html> is blocked. If the keyword ".com" is specified, only Web sites with other domain suffixes (such as .edu or .gov) can be viewed. If you wish to block all Internet browsing access during a scheduled period, enter the keyword "." and set the schedule in the Schedule menu.

To specify a Trusted User: 1. Enter that computer's IP address in the Trusted User box. 2. Click Apply. You may specify one Trusted User, which is a computer that will be exempt from blocking and logging. Since the Trusted User will be identified by an IP address, you should configure that computer with a fixed IP address. Blocking Access to Internet Services The 54Mpbs Wireless Router allows you to block the use of certain Internet services by computers on your network. This is called service blocking or port filtering. The Block Services menu is shown below: Figure 3-2 Content Filtering v1.2, September 2006 3-3 54Mbps Wireless Router Model KWGR614 Reference Manual Services are functions performed by server computers at the request of client computers.

For example, Web servers serve Web pages, time servers serve time and date information, and game hosts serve data about other players' moves. When a computer on your network sends a request for service to a server computer on the Internet, the requested service is identified by a service or port number. This number appears as the destination port number in the transmitted IP packets. For example, a packet that is sent with destination port number 80 is an HTTP (Web server) request. To enable service blocking: 1. Select either Per Schedule or Always 2. Click Apply. 3. If you want to block by schedule, be sure to specify a time period in the Schedule menu, as described in "Scheduling When Blocking Will Be Enforced" on page 3-6. To specify a service for blocking: 1. Click Add. The Add Services menu will appear, as shown below: Figure 3-3 2. From the Service Type list, select the application or service to be allowed or blocked. The list already displays several common services, but you are not limited to these choices. To add any additional services or applications that do not already appear, select "User Defined".

3-4 v1.2, September 2006 Content Filtering 54Mbps Wireless Router Model KWGR614 Reference Manual Configuring a User Defined Service To define a service, first you must determine which port number or range of numbers is used by the application. The service numbers for many common protocols are defined by the Internet Engineering Task Force (IETF) and published in RFC1700, "Assigned Numbers." Service numbers for other applications are typically chosen from the range 1024 to 65535 by the authors of the application. This information can usually be determined by contacting the publisher of the application or from user groups of newsgroups.

1. Enter the Starting Port and Ending Port numbers. If the application uses a single port number, enter that number in both boxes. 2. If you know that the application uses either TCP or UDP, select the appropriate protocol. If you are not sure, select Both. Configuring Service Blocking by IP Address Range Under "Filter Services For", you can block the specified service for a single computer, a range of computers (having consecutive IP addresses), or all computers on your network. Content Filtering v1.2, September 2006 3-5 54Mbps Wireless Router Model KWGR614 Reference Manual Scheduling When Blocking Will Be Enforced The 54Mpbs Wireless Router allows you to specify when blocking will be enforced. The Schedule menu is shown below: Figure 3-4 Use this schedule for blocking content.

Check this box if you wish to enable a schedule for Content Filtering. · · · Days to Block. Select days to block by checking the appropriate boxes. Select "Every day" to check the boxes for all days. Time of Day to Block. Select a start and end time in 23:59 format. Select "All Day" for 24 hour blocking. Click Apply to make the schedule take effect. Be sure to select your Time Zone in the E-Mail menu; see "Configuring E-Mail Alert and Web Access Log Notifications" on page 3-9 for details. 3-6 v1.

2, September 2006 Content Filtering 54Mbps Wireless Router Model KWGR614 Reference Manual Viewing Logs of Web Access or Attempted Web Access The log is a detailed record of what Web sites you have accessed or attempted to access. Up to 128 entries are stored in the log. Log entries will only appear when keyword blocking is enabled, and no log entries will be made for the Trusted User. An example is shown below: Figure 3-5 Log entries are described in Table 3-1. Table 3-1.

Log entry descriptions Field Description Date and Time Source IP Action Target URL The date and time the log entry was recorded. The IP address of the initiating device for this log entry. This field displays whether the access was blocked or allowed. The name or IP address of the Web site or newsgroup visited or attempted to access. 3-7 v1.

2, September 2006 Content Filtering 54Mbps Wireless Router Model KWGR614 Reference Manual Log action buttons are described in Table 3-2.

*Table 3-2. Log action buttons Field Description Refresh Clear Log Send Log Click this button to refresh the log screen. Click this button to clear the log entries. Click this button to E-mail the log immediately. 3-8 v1.2, September 2006 Content Filtering 54Mbps Wireless Router Model KWGR614 Reference Manual Configuring E-Mail Alert and Web Access Log Notifications In order to receive logs and alerts by E-mail, you must provide your E-mail information in the EMail menu, shown below: Figure 3-6 · Turn E-mail Notification On--Check this box if you wish to receive e-mail logs and alerts from the router. 3-9 v1.2, September 2006 Content Filtering 54Mbps Wireless Router Model KWGR614 Reference Manual · Your Outgoing Mail Server--Enter the name of your outgoing (SMTP) mail server (such as mail.myISP.*

*com). You may be able to find this information in the configuration menu of your e-mail program. If you leave this box blank, log and alert messages will not be sent via e-mail. Send To This E-mail Address--Enter the e-mail address to which logs and alerts are sent. This e-mail address will also be used as the From address. If you leave this box blank, log and alert messages will not be sent via e-mail. Authentication--Leave the "Authenticate with SMTP Server" box unchecked if you use an outgoing mail server provided by your current ISP. If you use an e-mail account that is not provided by your ISP, check this box and enter the required user name and password information. · · You can specify that logs are automatically sent to the specified e-mail address with these options: · · Send Alert Immediately--Check this box if you would like immediate notification of attempted access to a blocked site. Send Logs According To This Schedule--Use this option to specify how often to send the logs: Hourly, Daily, Weekly, or When Full.*

*Day. Specifies which day of the week to send the log. Relevant when the log is sent weekly or daily. Time. Specifies the time of day to send the log. Relevant when the log is sent daily or weekly. If the Weekly, Daily or Hourly option is selected and the log fills up before the specified period, the log is automatically e-mailed to the specified e-mail address. After the log is sent, the log is cleared from the router's memory. If the router cannot e-mail the log file, the log buffer may fill up. In this case, the router overwrites the log and discards its contents.*

*The 54Mpbs Wireless Router uses the Network Time Protocol (NTP) to obtain the current time and date from one of several Network Time Servers on the Internet. In order to localize the time for your log entries, you must specify your Time Zone: · · Time Zone--Select your local time zone. This setting will be used for the blocking schedule and for time-stamping log entries. Daylight Savings Time--Check this box if your time zone is currently under daylight savings time. 3-10 v1.2, September 2006 Content Filtering Chapter 4 Maintenance This chapter describes how to use the maintenance features of your 54Mbps Wireless Router Model KWGR614. These features can be found in the Setup and Maintenance sections in the Main Menu of the browser interface. 4-1 v1.2, September 2006 54Mbps Wireless Router Model KWGR614 Reference Manual How to Manually Configure Your Internet Connection You can manually configure your router using the Basic Settings menu, shown below. ISP Does Not Require Login ISP Does Require Login Figure 4-1 You can manually configure the router using the Basic Settings menu shown in Figure 4-1 using these steps: 1.*

*Connect to the wireless router by typing http://www.routerlogin.net in the address field of your browser, then click Enter. 4-2 v1.2, September 2006 Maintenance 54Mbps Wireless Router Model KWGR614 Reference Manual 2. For security reasons, the wireless router has its own user name and password. When prompted, enter admin for the router user name and password for the router password, both in lower case letters. 3. Click Basic Settings on the Setup menu. 4.*

*If your Internet connection does not require a login, click No at the top of the Basic Settings menu and fill in the settings according to the instructions below. If your Internet connection does require a login, click Yes, and skip to step 5. a. Enter your Account Name (may also be called Host Name) and Domain Name. These parameters may be necessary to access your ISP's services such as mail or news servers.*

*b. Internet IP Address: If your ISP has assigned you a permanent, fixed (static) IP address for your computer, select Use Static IP Address. Enter the IP address that your ISP assigned. Also enter the net mask and the Gateway IP address. The Gateway is the ISP's router to which your router will connect.*

*c. Domain Name Server (DNS) Address: If you know that your ISP does not automatically transmit DNS addresses to the router during login, select Use These DNS Servers and enter the IP address of your ISP's Primary DNS Server. If a Secondary DNS Server address is available, enter it also. Note: If you enter an address here, restart the computers on your network so that these settings take effect. d. Router's MAC Address: This section determines the Ethernet MAC address that will the router will use on the Internet port. Some ISPs will register the Ethernet MAC address of the network interface card in your computer when your account is first opened. They will then only accept traffic from the MAC address of that computer. @@To change the MAC address, select Use Computer MAC Address. @@You must be using the one computer that is allowed by the ISP.*

*Or, select Use this MAC address and type it in here. e. @@@@@@@@@a. @@The ones on this list have special requirements. b. @@c. Fill in the parameters for your Internet service provider. d. Click Apply to save your settings. @@@@This field displays the router firmware version. @@@@If no address is shown, the router cannot connect to the Internet. @@@@@These parameters apply to the Local (LAN) port of the router. @@@@@@@@@This field displays the wireless network name (SSID) being used by the wireless port of the router. The default is NETGEAR. 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. Identifies the channel of the wireless port being used. See "Wireless Communications" in Appendix B for the frequencies used on each channel. Indicates the router communication mode: 802.11g and 802.*

*11b, or 802.11g, or 802.11b. DHCP IP Subnet Mask Domain Name Server (DNS) This field displays the IPaddress(es) of the DNS server(s). LAN Port MAC Address IP Address DHCP IP Subnet Mask Wireless Port MAC Address (BSSID) Name (SSID) Region Channel Mode 4-6 v1.2, September 2006 Maintenance 54Mbps Wireless Router Model KWGR614 Reference Manual Table 4-1. Field Wireless AP Broadcast Name Wireless Router Status Fields Description Indicates if the Access Point feature of the Router is enabled.*

*If not enabled, the Wireless LED on the front panel will be off. Indicates if the router is broadcasting its SSID. Click on the Connection Status button to display the connection status, as shown below.*

*Figure 4-4 This screen shows the following statistics:. Table 4-2: Item IP Address Subnet Mask Default Gateway DHCP Server Connection Status Items Description The WAN (Internet) IP Address assigned to the router. The WAN (Internet) Subnet Mask assigned to the router. The WAN (Internet) default gateway the router communicates with. The IP address of the DHCP server which provided the IP configuration addresses. Maintenance v1.2, September 2006 4-7 54Mbps Wireless Router Model KWGR614 Reference Manual Table 4-2: Item DNS Server Lease Obtained Lease Expires Connection Status Items (continued) Description The IP address of the DNS server which provides network name to IP address translation. When the DHCP lease was obtained. When the DHCP lease was expires. Release Renew Click the Release button to release the DHCP lease.*

*Click the Renew button to renew the DHCP lease. Click on the Show Statistics button to display router usage statistics, as shown below. Figure 4-5 This screen shows the following statistics: Table 4-3: Item System Up Time Port Status TxPkts RxPkts Collisions Router Statistics Items Description The amount of time since the router was last restarted. The statistics for the WAN (Internet), LAN (local) and WLAN (wireless) ports. For each port, the screen displays: The link status of the port.*

*The number of packets transmitted on this port since reset or manual clear. The number of packets received on this port since reset or manual clear. The number of collisions on this port since reset or manual clear. 4-8 v1.2, September 2006 Maintenance 54Mbps Wireless Router Model KWGR614 Reference Manual Table 4-3: Item Tx B/s Rx B/s Up Time Poll Interval Router Statistics Items Description The current transmission (outbound) bandwidth used on the LAN ports.*

*The current reception (inbound) bandwidth used on the LAN ports. The time elapsed since this port acquired the link. Specifies the intervals at which the statistics are updated in this window. Click on Stop to freeze the display. Set Interval Stop Enter a time and click the button to set the polling frequency. Click the Stop button to freeze the polling information. 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. Figure 4-6 For each device, the table shows the IP address, 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. Maintenance v1.2, September 2006 4-9 54Mbps Wireless Router Model KWGR614 Reference Manual Configuration File Management The configuration settings of the 54Mpbs Wireless Router are stored within the router in a configuration file. This file can be saved (backed up) to a user's computer, retrieved (restored) from the user's computer, 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 4-7 Three options are available, and are described in the following sections. Restoring and Backing Up the Configuration The Restore and Backup options in the Backup Settings menu allow you to save and retrieve a file containing your router's configuration settings. To save your settings, click the Backup 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. 4-10 v1.2, September 2006 Maintenance 54Mbps Wireless Router Model KWGR614 Reference Manual 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.*

*Note: You must not interrupt the router while it is rebooting. Erasing the Configuration It is sometimes desirable to restore the router to the factory default settings. This can be done by using the Erase function, which will restore all factory settings. After an erase, the router's password will be password, the LAN IP address will be www.routerlogin.*

*net, and the router's DHCP client will be enabled. For other default settings, refer to "Factory Default Settings" in Appendix A. 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 6-7. Upgrading the Router Software Note: Before upgrading the router software, use the router backup utility to save your configuration settings. Any router upgrade will revert the router settings back to the factory defaults. After completing the upgrade, you can restore your settings from the backup. Maintenance v1.2, September 2006 4-11 54Mbps Wireless Router Model KWGR614 Reference Manual The routing software of the 54Mpbs Wireless 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 binary (.BIN or .IMG) 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 54Mpbs Wireless Router must support HTTP uploads. NETGEAR recommends using Microsoft Internet Explorer or Netscape Navigator 4.0 or higher. From the Main Menu of the browser interface, under the Maintenance heading, select the Router Upgrade heading.*

*To upload new firmware: 1. Download and unzip the new software file from NETGEAR. 2. In the Router Upgrade menu, click the Browse button and browse to the location of the binary (.BIN or .*

*IMG) upgrade file 3. Click Upload. Note: When uploading software to the 54Mpbs Wireless 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 will typically take about one minute. In some cases, you may need to reconfigure the router after upgrading. 4-12 v1.2, September 2006 Maintenance 54Mbps Wireless Router Model KWGR614 Reference Manual Changing the Administrator Password Note: Before changing the router password, use the router backup utility to save your configuration settings.*