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**User manual NETGEAR WGR614 V6**  
**User guide NETGEAR WGR614 V6**  
**Operating instructions NETGEAR WGR614 V6**  
**Instructions for use NETGEAR WGR614 V6**  
**Instruction manual NETGEAR WGR614 V6**

## **Reference Manual for the 54 Mbps Wireless Router WGR614 v6**

### **NETGEAR**

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

202-10099-01  
April 2005

202-10099-01, April 2005



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**Manual abstract:**

April 2005. Trademarks NETGEAR is a trademark of Netgear, Inc. @@@@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. Federal Communications Commission (FCC) Compliance Notice: Radio Frequency Notice 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 to correct the interference by one or more of the following measures: . . . . Reorient or relocate 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. EN 55 022 Declaration of Conformance This is to certify that the 54 Mbps Wireless Router WGR614 v6 is shielded against the generation of radio interference in accordance with the application of Council Directive 89/336/EEC, Article 4a. Conformity is declared by the application of EN 55 022 Class B (CISPR 22). Bestätigung des Herstellers/Importeurs Es wird hiermit bestätigt, daß das 54 Mbps Wireless Router WGR614 v6 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 54 Mbps Wireless Router WGR614 v6 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, 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. ii 202-10099-01, April 2005 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 54 Mbps Wireless Router WGR614 v6. 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>.

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: WGR614 v6 April 2005 router 54 Mbps Wireless Router WGR614 v6 Home English 202-10099-01 iii 202-10099-01, April 2005 iv 202-10099-01, April 2005 Contents Chapter 1 About This Manual Audience, Scope, Conventions, and Formats .....

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*This guide uses the following typographical conventions: Table 1-1. italics bold fixed Typographical Conventions 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. This manual is written for the WGR614 v6 router according to these specifications: Table 1-2. Product Version Manual Publication Date Manual Scope 54 Mbps Wireless Router WGR614 v6 April 2005 Note: Product updates are available on the NETGEAR, Inc. Web site at [http://kbserver.netgear.com/products/WGR614 v6.asp](http://kbserver.netgear.com/products/WGR614_v6.asp). About This Manual 202-10099-01, April 2005 1-1 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 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 product model. button to access the full NETGEAR, Inc. online knowledge base for the · · Links to PDF versions of the full manual and individual chapters. 1-2 202-10099-01, April 2005 About This Manual Reference Manual for the 54 Mbps Wireless Router WGR614 v6 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.*

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*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. About This Manual 202-10099-01, April 2005 1-3 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 1-4 202-10099-01, April 2005 About This Manual Chapter 2 Introduction Congratulations on your purchase of the NETGEAR® 54 Mbps Wireless Router WGR614 v6. The WGR614 v6 router provides connection for multiple computers to the Internet through an external broadband access device (such as a cable modem or DSL modem) that is normally intended for use by a single computer. This chapter describes the features of the NETGEAR 54 Mbps Wireless Router WGR614 v6. Key Features The 54 Mbps Wireless Router WGR614 v6 with 4-port switch connects your local area network (LAN) to the Internet through an external access device such as a cable modem or DSL modem. The WGR614 v6 router provides you with multiple 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 site addresses and address keywords, and share high-speed cable/DSL Internet access for up to 253 computers. In addition to the Network Address Translation (NAT) feature, the built-in firewall protects you from hackers. With minimum setup, you can install and use the router within minutes. The WGR614 v6 router provides the following features: · · · · · 802.11g wireless networking, with the ability to operate in 802.*

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11 b-only, 802.11g-only, or 802.11b+g modes. Easy, Web-based setup for installation and management. Content Filtering and Site Blocking Security. Built in 4-port 10/100 Mbps Switch. Ethernet connection to a wide area network (WAN) device, such as a cable modem or DSL modem.

Extensive Protocol Support. Login capability. Front panel LEDs for easy monitoring of status and activity. Introduction 202-10099-01, April 2005 2-1 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 · Flash memory for firmware upgrades. 802.11g Wireless Networking The WGR614 v6 router includes an 802.11g wireless access point, providing continuous, high-speed 54 Mbps access between your wireless and Ethernet devices. The access point provides: · · 802.11g wireless networking at up to 54 Mbps. 802.

11g wireless networking, with the ability to operate in 802.11g-only, 802.11b-only, or 802.11g and b modes, providing backwards compatibility with 802.11b devices or dedicating the wireless network to the higher bandwidth 802.

11g devices. 64-bit and 128-bit WEP encryption security. WEP keys can be generated manually or by passphrase. WPA-PSK support. Support for Wi-Fi Protected Access (WPA) data encryption which provides strong data encryption and authentication based on a pre-shared key.

Wireless access can be restricted by MAC address. Wireless network name broadcast can be turned off so that only devices that have the network name (SSID) can connect. · · · · A Powerful, True Firewall with Content Filtering Unlike simple Internet sharing NAT routers, the WGR614 v6 is a true firewall, using stateful packet inspection to defend against hacker attacks. Its firewall features include: · Denial of Service (DoS) protection. Automatically detects and thwarts DoS attacks such as Ping of Death, SYN Flood, LAND Attack, and IP Spoofing. · · · Blocks unwanted traffic from the Internet to your LAN. Blocks access from your LAN to Internet locations or services that you specify as off-limits. Logs security incidents. The WGR614 v6 will log security events such as blocked incoming traffic, port scans, attacks, and administrator logins. You can configure the router to E-mail the log to you at specified intervals.

You can also configure the router to send immediate alert messages to your E-mail address or E-mail pager whenever a significant event occurs. 2-2 202-10099-01, April 2005 Introduction Reference Manual for the 54 Mbps Wireless Router WGR614 v6 · The WGR614 v6 prevents objectionable content from reaching your computers. The router allows you to control access to Internet content by screening for keywords within Web addresses. You can configure the router to log and report attempts to access objectionable Internet sites. Security The WGR614 v6 router is equipped with several features designed to maintain security, as described in this section. · Computers Hidden by NAT NAT opens a temporary path to the Internet for requests originating from the local network. Requests originating from outside the LAN are discarded, preventing users outside the LAN from finding and directly accessing the computers on the LAN. Port Forwarding with NAT Although NAT prevents Internet locations from directly accessing the computers on the LAN, the router allows you to direct incoming traffic to specific computers based on the service port number of the incoming request, or to one designated "DMZ" host computer. You can specify forwarding of single ports or ranges of ports. · Autosensing Ethernet Connections with Auto Uplink With its internal 4-port 10/100 switch, the WGR614 v6 can connect to either a 10 Mbps standard Ethernet network or a 100 Mbps Fast Ethernet network.

Both the LAN and WAN interfaces are autosensing and capable of full-duplex or half-duplex operation. The router incorporates Auto Uplink™ technology. Each Ethernet port will automatically sense whether the Ethernet cable plugged into the port should have a 'normal' connection such as to a computer or an 'uplink' connection such as to a switch or hub. That port will then configure itself to the correct configuration. This feature also eliminates the need to worry about crossover cables, as Auto Uplink will accommodate either type of cable to make the right connection.

Extensive Protocol Support The WGR614 v6 router supports the Transmission Control Protocol/Internet Protocol (TCP/IP) and Routing Information Protocol (RIP). For further information about TCP/IP, refer to Appendix B, "Network, Routing, Firewall, and Basics." Introduction 202-10099-01, April 2005 2-3 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 · IP Address Sharing by NAT The WGR614 v6 router allows several networked computers to share an Internet account using only a single IP address, which may be statically or dynamically assigned by your Internet service provider (ISP). This technique, known as NAT, allows the use of an inexpensive single-user ISP account. Automatic Configuration of Attached computers by DHCP The WGR614 v6 router dynamically assigns network configuration information, including IP, gateway, and domain name server (DNS) addresses, to attached computers on the LAN using the Dynamic Host Configuration Protocol (DHCP).

This feature greatly simplifies configuration of computers on your local network. DNS Proxy When DHCP is enabled and no DNS addresses are specified, the router provides its own address as a DNS server to the attached computers. The router obtains actual DNS addresses from the ISP during connection setup and forwards DNS requests from the LAN. PPP over Ethernet (PPPoE) PPPoE is a protocol for connecting remote hosts to the Internet over a DSL connection by simulating a dial-up connection. This feature eliminates the need to run a login program such as Entersys or WinPOET on your computer. · · ·

Easy Installation and Management You can install, configure, and operate the 54 Mbps Wireless Router WGR614 v6 within minutes after connecting it to the network. The following features simplify installation and management tasks: · Browser-based management Browser-based configuration allows you to easily configure your router from almost any type of personal computer, such as Windows, Macintosh, or Linux. A user-friendly Setup Wizard is provided and online help documentation is built into the browser-based Web Management Interface. Smart Wizard The WGR614 v6 router Smart Wizard automatically senses the type of Internet connection, asking you only for the information required for your type of ISP account. Firmware Update The WGR614 v6 router can be updated if a newer version of firmware is available.

This lets you take advantage of product enhancements for your WGR614 v6 as soon as they become available. · · 2-4 202-10099-01, April 2005 Introduction Reference Manual for the 54 Mbps Wireless Router WGR614 v6 · Visual monitoring The WGR614 v6 router's front panel LEDs provide an easy way to monitor its status and activity.



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Maintenance and Support NETGEAR offers the following features to help you maximize your use of the WGR614 v6 router: · · Flash memory for firmware upgrades. Free technical support seven days a week, twenty-four hours a day, for 90 days from the date of purchase. Package Contents The product package should contain the following items: · · · · 54 Mbps Wireless Router WGR614 v6. AC power adapter. Vertical stand. Category 5 (CAT5) Ethernet cable.

NETGEAR 54 Mbps Wireless Router WGR614 v6 Resource CD (230-10091-02), including: -- This guide. -- The Installation Guide.

-- Application Notes and other helpful information. · · 54 Mbps Wireless Router WGR614 v5 Installation Guide. Registration, Warranty Card, and 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.

Introduction 202-10099-01, April 2005 2-5 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 The Router's Front Panel The front panel of the WGR614 v6 router contains the status lights described below. Figure 2-1: WGR614 v6 Front Panel 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 2-1. Label Power Status Light Descriptions Activity On Amber Blinking On Green Solid Off Solid Amber On Off On Blink On (Green) Blink (Green) On (Amber) Blink (Amber) Off Description Power is supplied to the router and it is performing its diagnostic test.

Power is supplied and the router it has passed its diagnostic test. Power is not supplied to the router. The router has failed its diagnostic test. The unit is performing the power on self test diagnostic. The unit successfully completed the power on self test diagnostic. The Wireless port is initialized and the wireless feature is enabled. The wireless feature is turned off or there is a problem. The Internet port has detected a link with an attached device. Data is being transmitted or received by the Internet port. The LAN (local area network) port has detected link with a 100 Mbps device.

Data is being transmitted or received at 100 Mbps. The Local port has detected link with a 10 Mbps device. Data is being transmitted or received at 10 Mbps. No link is detected on this port. Test Wireless Internet LAN 2-6 202-10099-01, April 2005 Introduction Reference Manual for the 54 Mbps Wireless Router WGR614 v6 The Router's Rear Panel The rear panel of the WGR614 v6 router contains the items listed below. Wireless Antenna 4321 Reset Button Power 4

LAN Ports Internet Port Figure 1-2: WGR614 v6 Rear Panel Viewed from left to right, the rear panel contains the following features: · · · · AC power adapter outlet for 12 V DC @ 1A output, 22W maximum Four Local (LAN) 10/100 Mbps Ethernet ports for connecting the router to the local computers Internet (WAN) Ethernet port for connecting the router to a cable or DSL modem Factory Default Reset push button for Restoring the Default Configuration and Password Wireless antenna Introduction 202-10099-01, April 2005 2-7 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 2-8

202-10099-01, April 2005 Introduction Chapter 3 Configuring the Internet and Wireless Settings This chapter describes how to use the Smart Wizard Installation Assistant on the Resource CD to configure your wireless router's Internet connection and wireless parameters. Once you are connected to the Internet and your wireless connections are working, you can also configure the router's content filtering parameters if you need to change the default settings.

See Chapter 4, "Content Filtering. If you are an advanced user, you can also configure maintenance (see Chapter 5, "Maintenance) and advanced (see Chapter 6, "Advanced Configuration of the Router) settings if you need to change the factory defaults. Note: Do not change your existing Internet connection. Instead, let the Smart Wizard Installation Assistant on the Resource CD guide you through the setup process. Configuring the Internet and Wireless Settings 202-10099-01, April 2005 3-1 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 Initial Configuration 1. Insert the Resource CD into the CD drive on your PC. The following screen appears: Click SETUP to get started Figure 3-1: Smart Wizard Installation Assistant Startup screen 2. Click Setup and follow the instructions.

The Smart Wizard Installation Assistant will guide you through the setup process: · · · How to change your cabling. How to connect to the Internet. How to configure your wireless settings. When you get to the wireless settings, you will have to select the country where you are located and decide whether you want to have security on your wireless links (Netgear strongly recommends enabling security). Depending on the type of security you select, you will also have to enter security key or passphrase information (see "Wireless Settings" on page 3-9 for information on the wireless authentication and encryption parameters).

Configuring the Internet and Wireless Settings 202-10099-01, April 2005 3-2 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 If you want to change your Internet or wireless settings later, see "Changing Your Configuration" on page 3-5. Logging Into Your Router To log into your router after you have configured your router, do the following: 1. Type <http://www.routerlogin.net> in the address field of Internet Explorer or Netscape® Navigator. Figure 3-2: Log in to the router 2. When prompted, enter admin for the router user name and password for the router password, both in lower case letters (or enter the password you chose if you changed it during the setup in "Initial Configuration" on page 3-2). Note: The router user name and password are not the same as any user name or password you may use to log in to your Internet connection. A login window like the one shown below opens: Figure 3-3: Login window

Configuring the Internet and Wireless Settings 202-10099-01, April 2005 3-3 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 3. Click OK and the resulting window below appears: Figure 3-4: Login result 3-4 Configuring the Internet and Wireless Settings 202-10099-01, April 2005 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 Changing Your Configuration You can change your Internet and wireless settings after they have been configured by the Smart Wizard Configuration Assistant.

Internet Settings To change the Internet settings, click Basic Settings on the left menu bar. One of the following screens appears: Basic Settings, No Login Basic Settings, Login Required Figure 3-5: Basic Settings screens The Basic Settings pages allow you to configure, upgrade and check the status of your NETGEAR Wireless Router.



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Configuring the Internet and Wireless Settings 202-10099-01, April 2005 3-5 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 Click an item in the leftmost column. The current settings or information for that area appear in the center column. Helpful information related to the selected Settings page appears in this column. If you are using Internet Explorer, you may click an item in the center column to jump directly to the related help section; otherwise, scroll down until you reach it. For the most current documentation, go to: [http://kbserver.netgear.com/products\\_automatic/WGR614v6.asp](http://kbserver.netgear.com/products_automatic/WGR614v6.asp) Note: If you are setting up the router for the first time, the default settings may work for you with no changes.

· Does Your Internet Connection Require A Login?: Select this option based on the type of account you have with your ISP. If you need to enter login information every time you connect to the Internet or you have a PPPoE account with your ISP, select Yes. Otherwise, select No. Note: If you have installed PPP software such as WinPoET (from Earthlink) or Enternet (from PacBell), then you have PPPoE. Select Yes.

After selecting Yes and configuring your router, you will not need to run the PPP software on your PC to connect to the Internet. · Internet Service Provider: Select the service provided by your ISP. "Other" (PPPoE) is the most common. "PPTP" is used in Austria and other European countries. "Telstra BigPond" is for Australia only.

Login: This is usually the name that you use in your e-mail address. For example, if your main mail account is JerAB@ISP.com, then put JerAB in this box.

Some ISPs (like Mindspring, Earthlink, and T-DSL) require that you use your full e-mail address when you log in. If your ISP requires your full e-mail address, then type it in the Login box. Password: Type the password that you use to log in to your ISP. Service Name: If your ISP provided a Service Name, enter it here. Otherwise, this may be left blank. Idle Timeout: An idle Internet connection will be terminated after this time period. If this value is zero (0), then the connection will be "kept alive" by re-connecting immediately whenever the connection is lost.

· Internet IP Address: If you log in to your service or your ISP did not provide you with a fixed IP address, the router will find an IP address for you automatically when you connect. Select Get dynamically from ISP. 3-6 Configuring the Internet and Wireless Settings 202-10099-01, April 2005 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 If you have a fixed (static, permanent) IP address, your ISP will have provided you with an IP address. Select Use static IP address and type in the IP Address. · Account Name (also known as Host Name or System Name): For most users, type your account name or user name in this box. For example, if your main mail account is JerAB@ISP.com, then put JerAB in this box. If your ISP has given you a specific Host name, then type it (for example, CCA7324-A). · Domain Name: For most users, you may leave this box blank, unless required by your ISP. You may type the domain name of your ISP.

For example, if your ISP's mail server is mail.xxx.yyy.zzz, you would type xxx.yyy.

zzz as the Domain Name. If you have a Domain name given to you by your ISP, type it in this box. (For example, Earthlink Cable may require a Host name of 'home' and Comcast sometimes supplies a Domain name.) If you have a cable modem, this is usually the Workgroup name. · Internet IP Address: If you log in to your service or your ISP did not provide you with a fixed IP address, the router will find an IP address for you automatically when you connect.

Select Get Dynamically From ISP. If you have a fixed (or static IP) address, your ISP will have provided you with the required information. Select Use Static IP Address and type the IP Address, Subnet Mask and Gateway IP Address into the correct boxes. For example: IP Address: 24.218.156.183 Subnet Mask: 255.255.255.0 Gateway IP Address: 24.

218.156.1 · Domain Name Server (DNS) Address: The DNS server is used to look up site addresses based on their names. If your ISP gave you one or two DNS addresses, select Use These DNS Servers and type the primary and secondary addresses. Otherwise, select Get Automatically From ISP. Note: If you get 'Address not found' errors when you go to a Web site, it is likely that your DNS servers aren't set up properly. You should contact your ISP to get DNS server addresses. · Router MAC Address: Your computer's local address is its unique address on your network. This is also referred to as the computer's MAC (Media Access Control) address. Configuring the Internet and Wireless Settings 202-10099-01, April 2005 3-7 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 Usually, select Use Default MAC Address.

If your ISP requires MAC authentication, then select either Use Computer MAC address to disguise the Router's MAC address with the Computer's own MAC address or Use This MAC Address to manually type the MAC address for a different computer. The format for the MAC address is XX:XX:XX:XX:XX:XX.

This value may be changed if the Use Computer MAC Address is selected once a value has already been set in the Use This MAC Address selection. Click Test to connect to the NETGEAR Web site. If you connect successfully, your settings work and you may click Logout to exit these pages and

.. enjoy surfing the 'net! If you don't connect successfully, 1. 2. 3.

4. 5. Go through the settings and make sure you've selected the correct options and typed everything correctly. Contact your ISP to verify the configuration information. Read the Troubleshooting section in the Router Installation Guide. On the Router GearBox CD, read the Troubleshooting Guide or the Troubleshooting section in the Reference Manual. Contact NETGEAR Technical Support. 3-8 Configuring the Internet and Wireless Settings 202-10099-01, April 2005 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 Wireless Settings To change the Internet settings, click Wireless Settings on the left menu bar. One of the following screens appears: Wireless Settings: No security Wireless Settings: WEP security Wireless Settings: WPA-PSK security Figure 3-6: Wireless Settings screens NOTE: To ensure proper agency compliance and compatibility between similar products in your area; the operating channel & region must be set correctly. · Placement of the Router to Optimize Wireless Connectivity: The operating distance or range of your wireless connection can vary significantly based on the physical placement of the router.

For best results, place your router: Near the center of the area in which your PCs will operate In an elevated location such as a high shelf Away from potential sources of interference, such as PCs, microwaves, and cordless phones With the Antenna tight and in the upright position Away from large metal surfaces Configuring the Internet and Wireless Settings 202-10099-01, April 2005 3-9 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 Note: Failure to follow these guidelines can result in significant performance degradation or inability to wirelessly connect to the router.



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· **Name (SSID):** Enter a value of up to 32 alphanumeric characters. The same Name (SSID) must be assigned to all wireless devices in your network. The default SSID is NETGEAR, but NETGEAR strongly recommends that you change your network's Name (SSID) to a different value. This value is also case-sensitive. For example, NETGEAR is not the same as NETGEAR. **Region:** Select your region from the drop-down list. This field displays the region of operation for which the wireless interface is intended. It may not be legal to operate the router in a region other than the region shown here. If your country or region is not listed, please check with your local government agency or check our web site for more information on which channels to use.

**Channel:** This field determines which operating frequency will be used. It should not be necessary to change the wireless channel unless you notice interference problems with another nearby access point. **Mode:** Select the desired wireless mode. The options are: g & b: Both 802.11g and 802.11b wireless stations can be used. g only: Only 802.11g wireless stations can be used. b only: All 802.11b wireless stations can be used.

802.11g wireless stations can still be used if they can operate in 802.11b mode. . . . The default is "g & b", which allows both "g" and "b" wireless stations to access this device. · **Security Options** **Disable:** no data encryption WEP (Wired Equivalent Privacy): use WEP 64 or 128 bit data encryption · **Authentication Type:** Normally this can be left at the default value of "Automatic." If that fails, select the appropriate value - "Open System" or "Shared Key" Check your wireless card's documentation to see what method to use. **Encryption Strength:** Select the WEP Encryption level: 64-bit (sometimes called 40-bit) encryption

128-bit encryption **Security Encryption (WEP) Key:** If WEP is enabled, you can manually or automatically program the four data encryption keys. These values must be identical on all PCs and Access Points in your network. · · 3-10 Configuring the Internet and Wireless Settings 202-10099-01, April 2005 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 · **Automatic Key Generation (Passphrase):** Enter a word or group of printable characters in the Passphrase box and click the Generate button to automatically configure the WEP Key(s). If encryption strength is set to 64 bit, then each of the four key boxes will automatically be populated with key values.

If encryption strength is set to 128 bit, then only the selected WEP key box will automatically be populated with key values. **Manual Entry Mode:** Select which of the four keys will be used and enter the matching WEP key information for your network in the selected key box. For 64 bit WEP: Enter ten hexadecimal digits (any combination of 0-9, A-F). For 128 bit WEP: Enter twenty-six hexadecimal digits (any combination of 0-9, A-F). · **WPA-PSK (Wi-Fi Protected Access Pre-Shared Key):** use WPA-PSK standard encryption · **Security Encryption (WPA-PSK):** Enter a word or group of printable characters in the

Passphrase box. The Passphrase must be 8 to 63 characters in length. **Default Factory Settings** When you first receive your WGR614 v6, the default factory settings are shown below. You can restore these defaults with the Factory Default Restore button on the rear panel. After you install the WGR614 v6 router, use the procedures below to customize any of the settings to better meet your networking needs. **FEATURE** Wireless Access Point Wireless Access List (MAC Filtering) SSID broadcast SSID 11b/g RF Channel Mode Authentication Type WEP DEFAULT FACTORY SETTINGS Enabled All wireless stations allowed Enabled NETGEAR 11 g and b Open System Disabled Configuring the Internet and Wireless Settings 202-10099-01, April 2005 3-11 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 How to Bypass the Configuration Assistant 1.

When the wireless router is in the factory default state, type <http://www.routerlogin.net/basicsetting.htm> in the address field of your browser, then click Enter. When the wireless router is in the factory default state, a user name and password are not required.

2. The browser will then display the WGR614 v6 settings home page shown in Figure 3-4. If you do not click Logout, the wireless router will wait 5 minutes after there is no activity before it automatically logs you out. NETGEAR Product Registration, Support, and Documentation Register your product at <http://www.NETGEAR.com/register>.

Registration is required before you can use our telephone support service. Product updates and Web support are always available by going to: <http://kbserver.netgear.com/products/WGR614v6.asp>. Documentation is available on the CD and at <http://kbserver.netgear.com/documentation/WGR614v6.asp>.

When the wireless router is connected to the Internet, click the Knowledge Base or the Documentation link under the Web Support menu to view support information or the documentation for the wireless router. 3-12 Configuring the Internet and Wireless Settings 202-10099-01, April 2005 Chapter 4 Content Filtering This chapter describes how to use the content filtering features of the 54 Mbps Wireless Router WGR614 v6 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 54 Mbps Wireless Router WGR614 v6 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. The subheadings are described below: **Content Filtering** 202-10099-01, April 2005 4-1 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 **Blocking Access to Internet Sites** The WGR614 v6 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 4-1 below: Figure 4-1: Block Sites menu To enable keyword blocking, select either "Per Schedule" or "Always", then click Apply.

If you want to block by schedule, be sure that a time period is specified in the Schedule menu. 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>.



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badstuff.

com/xxx.html> is blocked. 4-2 202-10099-01, April 2005 Content Filtering Reference Manual for the 54 Mbps Wireless Router WGR614 v6 · · 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, enter that PC's IP address in the Trusted User box and click Apply. You may specify one Trusted User, which is a PC that will be exempt from blocking and logging. Since the Trusted User will be identified by an IP address, you should configure that PC with a fixed IP address. Blocking Access to Internet Services The WGR614 v6 router allows you to block the use of certain Internet services by PCs on your network. This is called services blocking or port filtering. The Block Services menu is shown below: Figure 4-2: Block Services menu 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, select either Per Schedule or Always, then click Apply. If you want to block by schedule, be sure that a time period is specified in the Schedule menu. Content Filtering 202-10099-01, April 2005 4-3 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 To specify a service for blocking, click Add. The Add Services menu will appear, as shown below: Figure 4-3: Add Services menu 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. 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. Enter the Starting Port and Ending Port numbers. If the application uses a single port number, enter that number in both boxes.

If you know that the application uses either TCP or UDP, select the appropriate protocol. If you are not sure, select Both. 4-4 202-10099-01, April 2005 Content Filtering Reference Manual for the 54 Mbps Wireless Router WGR614 v6 Configuring Services 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.

Scheduling When Blocking Will Be Enforced The WGR614 v6 router allows you to specify when blocking will be enforced. The Schedule menu is shown below: Figure 4-4: Schedule menu · · · Use this schedule for blocking content.

Check this box if you wish to enable a schedule for Content Filtering. Click Apply. Days to Block. Select days to block by checking the appropriate boxes. Select Everyday to check the boxes for all days. Click Apply. Time of Day to Block. Select a start and end time in 23:59 format. Select All day for 24 hour blocking. Click Apply.

Be sure to select your Time Zone in the E-Mail menu. Content Filtering 202-10099-01, April 2005 4-5 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 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 4-5: Logs menu Log entries are described in Table 4-1 Table 4-1. Field Log entry descriptions Description Number The index number of the content filter log entries. 128 entries are available numbered from 0 to 127. The log will keep the record of the latest 128 entries. 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. Date and Time Source IP Action 4-6 202-10099-01, April 2005 Content Filtering Reference Manual for the 54 Mbps Wireless Router WGR614 v6 Log action buttons are described in Table 4-2 Table 4-2. Field Log action buttons 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. 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 E-Mail menu, shown below: Figure 4-6: Email menu Content Filtering 202-10099-01, April 2005 4-7 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 · · Turn e-mail notification on Check this box if you wish to receive e-mail logs and alerts from the router. Your outgoing mail server Enter the name of your ISP's 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. · 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 Specifies how often to send the logs: Hourly, Daily, Weekly, or When Full. Day for sending log Specifies which day of the week to send the log. Relevant when the log is sent weekly or daily. Time for sending log Specifies the time of day to send the log.

Relevant when the log is sent daily or weekly.



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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 WGR614 v6 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. · 4-8 202-10099-01, April 2005 Content Filtering Chapter 5 Maintenance This chapter describes how to use the maintenance features of your 54 Mbps Wireless Router WGR614 v6.

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 on Maintenance, then select Router Status to view the System Status screen, shown below. Figure 5-1: Router Status screen Maintenance 202-10099-01, April 2005 5-1 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 This screen shows the following parameters: Table 5-1. Field Account Name Firmware Version Internet Port MAC Address IP Address Wireless Router Status Fields Description This field displays the Host Name assigned to the router.

This field displays the router firmware version. These parameters apply to the Internet (WAN) port of the router. This field displays the Media Access Control address being used by the Internet (WAN) port of the router. This field displays the IP address being used by the Internet (WAN) port of the router. If no address is shown, the router cannot connect to the Internet.

If set to None, the router is configured to use a fixed IP address on the WAN. If set to Client, the router is configured to obtain an IP address dynamically from the ISP. This field displays the IP Subnet Mask being used by the Internet (WAN) port of the router. This field displays the Domain Name Server addresses being used by the router. These parameters apply to the Local (LAN) port of the router. This field displays the Media Access Control address being used by the LAN port of the router. This field displays the IP address being used by the Local (LAN) port of the router. The default is 192.168.1.

This field displays the IP Subnet Mask being used by the Local (LAN) port of the router. The default is 255.255.255.0 Identifies if the router's built-in DHCP server is active for the LAN attached devices. DHCP IP Subnet Mask DNS LAN Port MAC Address IP Address IP Subnet Mask DHCP 5-2 202-10099-01, April 2005 Maintenance Reference Manual for the 54 Mbps Wireless Router WGR614 v6 Table 5-1. Field Wireless Port MAC Address Name (SSID) Region Wireless Router Status Fields (continued) Description These parameters apply to the Wireless port of the router. This field displays the Media Access Control address being used by the Wireless 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 Channels" on page D-7 for the frequencies used on each channel. Channel Click on the "Connection Status" button to display the connection status, as shown below.

Figure 5-2: Connection Status screen This screen shows the following statistics: Table 5-2: Item IP Address Subnet Mask Connection Status Items Description The WAN (Internet) IP Address assigned to the router. The WAN (Internet) Subnet Mask assigned to the router. Maintenance 202-10099-01, April 2005 5-3 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 Table 5-2: Item Default Gateway DHCP Server DNS Server Lease Obtained Lease Expires Release Renew Connection Status Items (continued) Description The WAN (Internet) default gateway the router communicates with. The IP address of the DHCP server which provided the IP configuration addresses.

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 expires. 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 5-3: Router Statistics screen This screen shows the following statistics: Table 5-3: Item Port Status TxPkts RxPkts Collisions Tx B/s Router Statistics Items Description The statistics for the WAN (Internet) and LAN (local) 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. The current transmission (outbound) bandwidth used on the WAN and LAN ports. 5-4 202-10099-01, April 2005 Maintenance Reference Manual for the 54 Mbps Wireless Router WGR614 v6 Table 5-3: Item Rx B/s Up Time Up Time Poll Interval Set Interval Stop Router Statistics Items (continued) Description The current reception (inbound) bandwidth used on the WAN and LAN ports. The amount of time since the router was last restarted. 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. 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 5-4: Attached Devices menu For each device, the table shows the IP address, NetBIOS Host Name (if available), and Ethernet MAC address. Note that if the router is rebooted, the table data is lost until the router rediscovers the devices. To force the router to look for attached devices, click the Refresh button. Configuration File Management The configuration settings of the WGR614 v6 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.



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Maintenance 202-10099-01, April 2005 5-5 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 From the Main Menu of the browser interface, under the Maintenance heading, select the Settings Backup heading to bring up the menu shown below. Figure 5-5: Settings Backup menu Three options are available, and are described in the following sections. Restoring and Backing Up 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 Backup button.

Your browser will extract the configuration file from the router and will prompt you for a location on your PC 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 PC 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. 5-6 202-10099-01, April 2005 Maintenance Reference Manual for the 54 Mbps Wireless Router WGR614 v6 Erasing the Configuration It is sometimes desirable to restore the router to original 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 192.

168.1.1, and the router's DHCP client will be 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 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. The routing software of the WGR614 v6 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 WGR614 v6 router must support HTTP uploads.

NETGEAR recommends using Microsoft Internet Explorer 5.0 and above and Netscape Navigator 4.7 and above. From the Main Menu of the browser interface, under the Maintenance heading, select the Router Upgrade link display the menu shown below. Maintenance 202-10099-01, April 2005 5-7 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 Figure 5-6: Router Upgrade menu To upload new firmware: 1.

2. Download and unzip (if the downloaded file is a .zip file) the new software file from NETGEAR. In the Router Upgrade menu, click the Browse button and browse to the location of the upgrade file 3. Click Upload. Note: When uploading software to the WGR614 v6 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.

Changing the Administrator Password Note: 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. 5-8 202-10099-01, April 2005 Maintenance Reference Manual for the 54 Mbps Wireless Router WGR614 v6 From the Main Menu of the browser interface, under the Maintenance heading, select Set Password to bring up the menu shown below. Figure 5-7: Set Password menu To change the password, first enter the old password, then enter the new password twice. Click Apply. Maintenance 202-10099-01, April 2005 5-9 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 5-10 202-10099-01, April 2005 Maintenance Chapter 6 Advanced Configuration of the Router This chapter describes how to configure the advanced features of your 54 Mbps Wireless Router WGR614 v6. These features can be found under the Advanced heading in the Main Menu of the browser interface. . Note: If you are unfamiliar with networking and routing, refer to Appendix B, "Network, Routing, Firewall, and Basics," to become more familiar with the terms and procedures used in this chapter.

Configuring Port Triggering Port Triggering is an advanced feature that can be used to easily enable gaming and other internet applications. Port Forwarding is typically used to enable similar functionality, but it is static and has some limitations.

Note: If you use applications such as multi-player gaming, peer-to-peer connections, real time communications such as instant messaging, or remote assistance (a feature in Windows XP), you should also enable UPnP according to the instructions at "Using Universal Plug and Play (UPnP)" on page 6-18. Port Triggering opens an incoming port temporarily and does not require the server on the internet to track your IP address if it is changed by DHCP, for example. Port Triggering monitors outbound traffic. When the router detects traffic on the specified outbound port, it remembers the IP address of the computer that sent the data and triggers the incoming port. Incoming traffic on the triggered port is then forwarded to the triggering computer. Using the Port Triggering page, you can make local computers or servers available to the Internet for different services (for example, FTP or HTTP), to play Internet games (like Quake III), or to use Internet applications (like CUseeMe). Port Forwarding is designed for FTP, Web Server or other server based services. Once port forwarding is set up, request from Internet will be forwarded to the proper server. On the contrary, Advanced Configuration of the Router 202-10099-01, April 2005 6-1 Reference Manual for the 54 Mbps Wireless Router WGR614 v6 port triggering will only allow request from Internet after a designated port is 'triggered'.



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