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3G Broadband Wireless Router MBR624GU User Manual

NETGEAR

NETGEAR, Inc.
350 E. Plumeria Drive
San Jose, CA 95134 USA

202-10437-02
March 2009



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Manual abstract:

350 E. @@@@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. FCC Statement 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 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.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation. FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. The radio module has been evaluated under FCC Bulletin OET 65C (01-01) and found to be compliant to the requirements as set forth in CFR 47 Sections, 2.1093, and 15.

247 (b) (4) addressing RF Exposure from radio frequency devices. This model meets the applicable government requirements for exposure to radio frequency waves. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. For product available in the USA market, only channels 1-11 can be operated. Selection of other channels is not possible Federal Communications Commission (FCC) Radiation Exposure Statement This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation. ii v1.1, March 2009 European Union Statement of Compliance Hereby, NETGEAR, Inc. declares that this router is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. Ěesky [Czech] Dansk [Danish] Deutsch [German] Eesti [Estonian] English NETGEAR, Inc. tı́mto prohlasuje, ze tento 3G Broadband Wireless Router MBR624GU je ve shodi se zıkkladnımı pozadavky a dalsımı pı́slnusnımı ustanovenımı smırnice 1999/ 5/ES. Undertegnede NETGEAR, Inc. erklærer herved, at fıljgende udstyr 3G Broadband Wireless Router MBR624GU overholder de vęsentlige krav og řvrigre relevante krav i direktiv 1999/5/EF. Hiermit erklårt NETGEAR, Inc., dass sich das Gerıt 3G Broadband Wireless Router MBR624GU in Übereinstimmung mit den grundlegenden Anforderungen und den řbrigen einschlı́gigen Bestimmungen der Richtlinie 1999/5/EG befindet.

Kęesolevaga kinnitab NETGEAR, Inc. seadme 3G Broadband Wireless Router MBR624GU vastavust direktiivi 1999/5/EÜ pı́hinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele. Hereby, NETGEAR, Inc., declares that this 3G Broadband Wireless Router MBR624GU 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 3G Broadband Wireless Router MBR624GU cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE. NETGEAR, Inc. 3G Broadband Wireless Router MBR624GU 1999/5/. Par la présente NETGEAR, Inc. déclare que l'appareil 3G Broadband Wireless Router MBR624GU est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.

Con la presente NETGEAR, Inc. dichiara che questo 3G Broadband Wireless Router MBR624GU è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE. Ar so NETGEAR, Inc. deklarę, ka 3G Broadband Wireless Router MBR624GU atbilst Direktıvas 1999/5/EK bıtiskajām prasībām un citiem ar to saistıtajiem noteikumiem. Siuo NETGEAR, Inc.

deklaruoja, kad sis 3G Broadband Wireless Router MBR624GU atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas. Español [Spanish] [Greek] Français [French] Italiano [Italian] Latviski [Latvian] Lietuviř [Lithuanian] iii v1.1, March 2009 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 3G Broadband Wireless Router MBR624GU in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG. Hawnhekk, NETGEAR, Inc.

, jiddikjara li dan 3G Broadband Wireless Router MBR624GU jikkonforma mal-tiġġiet essenzjali u ma provvedimenti orajni relevanti li hemm fid-Dirrettiva 1999/5/EC. Alulırott, NETGEAR, Inc. nyilatkozom, hogy a 3G Broadband Wireless Router MBR624GU megfelelı a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak. Niniejszym NETGEAR, Inc. ooewiadczę, że 3G Broadband Wireless Router MBR624GU jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC. NETGEAR, Inc. declara que este 3G Broadband Wireless Router MBR624GU está conforme com os requisitos essenciais e outras disposiçōes da Directiva 1999/5/CE. NETGEAR, Inc. izjavlja, da je ta 3G Broadband Wireless Router MBR624GU v skladu z bistvenimi zahtevami in ostalimi relevantnimi doloęili direktive 1999/5/ES. NETGEAR, Inc.

tı́mto vyhlasuje, ze 3G Broadband Wireless Router MBR624GU spı́da zıkkladné pozıadavky a vsetky prı́slusné ustanovenia Smernice 1999/5/ES. NETGEAR, Inc. vakuuttaa tåten ettå 3G Broadband Wireless Router MBR624GU tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitå koskevien direktiivin muiden ehtojen mukainen. Hårmed intygår NETGEAR, Inc. att denna 3G Broadband Wireless Router MBR624GU står i řverensståmmelse med de vęsentliga egenskapskrav och řvriga relevanta beståmmelser som framgår av direktiv 1999/5/EG.



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A printed copy of the EU Declaration of Conformity certificate for this product is provided in the MBR624GU product package. Bestätigung des Herstellers/Importeurs Es wird hiermit bestätigt, daß das 3G Broadband Wireless Router MBR624GU 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 3G Broadband Wireless Router MBR624GU 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, iv v1.1, March 2009 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 3G Broadband Wireless Router MBR624GU. 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 Mozilla Firefox 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: MBR624GU March 2009 Router 3G Broadband Wireless Router MBR624GU Home English 202-10437-02 1.1 v v1.1, March 2009 vi v1.1, March 2009 Contents 3G Broadband Wireless Router MBR624GU User Manual About This Manual Conventions, Formats, and Scope ..

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Conventions, Formats, and Scope The conventions, formats, and scope of this manual are described in the following paragraphs: · *Typographical Conventions.* This manual uses the following typographical conventions: *Italic Bold Italic Emphasis, books, CDs, file and server names, extensions User input, IP addresses, GUI screen text URL links* · *Formats.* This manual uses the following formats to highlight special messages: *Note: This format is used to highlight information of importance or special interest. Tip: This format is used to highlight a procedure that will save time or resources. Warning: Ignoring this type of note might result in a malfunction or damage to the equipment.* · *Scope.* This manual is written for the Wireless Router according to these specifications: *Product Version Manual Publication Date 3G Broadband Wireless Router MBR624GU March 2009 i v1.1, March 2009 3G Broadband Wireless Router MBR624GU User Manual For more information about network, Internet, firewall, and VPN technologies, see the links to the NETGEAR website in Appendix B, "Related Documents". Note: Product updates are available on the NETGEAR, Inc. website at <http://kbserver.netgear.com/products/MBR624GU.asp>. How to Use This Manual The HTML version of this manual includes the following: · Buttons, at a time. and , for browsing forward or backward 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.*



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com. ii v1.1, March 2009 3G Broadband Wireless Router MBR624GU User Manual 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.

iii v1.1, March 2009 3G Broadband Wireless Router MBR624GU User Manual iv v1.1, March 2009 Chapter 1 Installing Your Router Congratulations on your purchase of the 3G Broadband Wireless Router MBR624GU. Before you begin installing your router, check the package contents (see "Unpacking Your New Router" on page 1-1). Become familiar with the front and back panels of your router--especially the LEDs-- and the important information on the router label (see "Hardware Features" on page 1-1).

Then, read the section on "Positioning Your Wireless Router" on page 1-5 to ensure that you have selected the best location to install your router. This chapter describes how to set up the router on your Local Area Network (LAN) and connect to the Internet. It describes how to set up your router for Internet access and configure basic wireless connectivity. Unpacking Your New Router Your router should contain the following items: · 3G Broadband Wireless Router MBR624GU · AC power adapter (varies by region) · Category 5 (Cat 5) Ethernet cable · USB docking station · 3G Broadband Wireless Router MBR624GU Installation Guide · Warranty and Support Information cards 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 product for repair.

Hardware Features Before you install and connect your router, take a moment to become familiar with the front and back panels of the router--especially the LEDs on the front panel. 1-1 v1.1, March 2009 3G Broadband Wireless Router MBR624GU User Manual Front Panel The router front panel shown below contains status LEDs. 1 2 3 4 5 Figure 1-1 You can use the LEDs to verify various conditions. The following table describes each LED.. Table 1-1. LED Descriptions LED 1. Power, factory reset Activity Solid green Solid red Off Factory reset Solid green Blinking green 2. Ethernet Solid Amber ports 1-4 Blinking amber Off Solid green 3.

Wireless Blinking green Off Description Power is supplied to the router. POST (Power-On Self-Test) failure or device malfunction. Power is not supplied to the router. During a reset, lights momentarily, blinks red three times, and then turns green as the gateway resets to the factory defaults. The powered device is connected to the associated Ethernet Local Area Network (LAN) port, which is operating at 100 Mbps. Data is being transmitted or received at 100 Mbps. The powered device is connected to the associated Ethernet Local Area Network (LAN) port, which is operating at 10 Mbps. Data is being transmitted or received at 10 Mbps. No link is detected on this port, or no cable or no powered device is connected to the associated port. The wireless access point is enabled.

Data is being transmitted or received over the wireless link. The wireless access point is disabled. 1-2 v1.1, March 2009 Installing Your Router 3G Broadband Wireless Router MBR624GU User Manual Table 1-1. LED Descriptions (continued) 4.

USB Solid green Blinking green Off Solid green Blinking green 5. Internet Red Off The wireless USB modem is attached to the USB port. Data is being transmitted or received. No link is detected on this port, or the USB modem is powered off. The router is connected to the Internet.

The router is connected to the Internet and traffic is passing through the device. No Internet connection. The router is powered off. Back Panel 1 5 2 3 4 4 Figure 1-2 The router ports are color-coded to distinguish your Internet port from the other four ports that connect to the wired computer(s) on your LAN. The rear panel contains the following elements: 1. Wireless antenna 2. AC power adapter input 3. Power switch 4. USB port for connecting a wireless USB modem (sold separately). 5.

Four local Ethernet RJ-45 LAN ports for connecting the router to the local computers Installing Your Router v1.1, March 2009 1-3 3G Broadband Wireless Router MBR624GU User Manual Router Side Panel The side panel of the router has a Wireless On/Off button and a WPS button. Wireless On/Off WPS Figure 1-3 · WPS. You can use the Wi-Fi Protected Setup (WPS) feature with clients on the network that are Wi-Fi certified and WPA capable. See "Using Push 'N' Connect (WPS) to Configure Your Wireless Network" on page 2-13. · Wireless On/Off. By default, the router is set up to work as a wireless access point. Pressing this button turns the wireless access point feature off and on. You can also do this through the Wireless Settings screen (see the link to your User Manual on the Resource CD.) Factory default settings.

Pressing both buttons at the same time resets the unit the factory default settings. · Router Label The label on the back of the router shows the router's MAC address, serial number, and factory default login information. Figure 1-4 1-4 v1.1, March 2009 Installing Your Router 3G Broadband Wireless Router MBR624GU User Manual Positioning Your Wireless Router The router lets you access your network from virtually anywhere within the operating range of your wireless network. However, the operating distance or range of your wireless connection can vary significantly depending on the physical placement of your router.

For example, the thickness and number of walls the wireless signal must pass through may limit the range. For best results, place your router: · · · · · Near the center of the area where your computers and other devices will operate, preferably within line of sight to your wireless devices.



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Accessible to an AC power outlet and near Ethernet cables for wired computers. In an elevated location such as a high shelf, keeping the number of walls and ceilings between the router and your other devices to a minimum. Away from electrical devices which are potential sources of interference, such as ceiling fans, home security systems, microwaves, or the base for a cordless phone.

Away from any large metal surfaces, such as a solid metal door or aluminum studs. Large expanses of other materials such as glass, insulated walls, fish tanks, mirrors, brick, and concrete can also affect your wireless signal. Note: Failure to follow these guidelines can result in significant performance degradation or an inability to wirelessly connect to the Internet. Connecting Your Router Your wireless USB modem (sold separately) must be activated before you install the router. For a list of compatible wireless USB modems, see the NETGEAR website at <http://www.netgear.com>. To configure the router during installation, you need a computer with an Ethernet port. Your computer must be configured with DHCP (most PCs are). What You Need Before You Begin You need to prepare the following before you can set up your router: · A wireless USB modem (sold separately) with Internet service activated and coverage in your location.

1-5 v1.1, March 2009 Installing Your Router 3G Broadband Wireless Router MBR624GU User Manual · Your computer must be set up to use DHCP to get its TCP/IP configuration from the router. This is usually the case. For help with DHCP, see the documentation that came with your computer, or see the link to the online document in "Preparing a Computer for Network Access" on page B-1. Connecting the Wireless USB Modem 1. At the location where you will install the router, connect your activated USB modem to your computer. Follow the instructions from your Internet Service Provider (ISP) to connect to the Internet from your computer. 2. Place the router in its vertical stand, and adjust the antenna. Figure 1-5 For best performance, place the router in a location where your USB modem Internet connection is strong, such as on a desk near a window instead of on the floor.

3. Connect your wireless USB modem with activated Internet service to the USB port on the rear panel of the router. 4. If your wireless USB modem has a separate antenna, adjust it as needed. 5.

On your computer, close the software that you used to connect to the Internet. 1-6 v1.1, March 2009 Installing Your Router 3G Broadband Wireless Router MBR624GU User Manual Connecting Your Router and Applying Power 1. Connect one end of the Ethernet cable that came with your router into a LAN port on the router, and the other end into the Ethernet port of your computer. Figure 1-6 2.

Plug in the power adapter to your router, and push the Power button on the rear panel. Figure 1-7 Installing Your Router v1.1, March 2009 1-7 3G Broadband Wireless Router MBR624GU User Manual 3. Verify that the following LEDs on the front of the router light up: · · · · · 2 Power. Power is supplied to the router. LAN. Your computer is securely connected to this LAN port on the router. USB. Your wireless USB modem is securely connected to the router. Wireless.

There is a wireless signal from the router. Internet. This LED is red because the router is not connected to the Internet. Using the Setup Wizard The NETGEAR Setup Wizard helps you to configure your Internet connection and wireless network. The Setup Wizard guides you through the setup process. You can also manually configure your router (see "Accessing the Setup Wizard after Installation" on page 1-11). Using the Setup Wizard to Configure Your Router's Internet Connection 1. From the Ethernet connected computer, open a Web browser. 2. Connect to the router by typing <http://192.168.0.1> or www.routerlogin.com in the address field of your browser.

The Setup screen displays: Figure 1-8 Note: If you connect to the router after initial configuration, a log in prompt displays. See "Logging in to the Router after Installation" on page 1-10". 1-8 v1.1, March 2009 Installing Your Router 3G Broadband Wireless Router MBR624GU User Manual 3. Click Next, and the Setup Wizard configures your router's Internet connection.

4. When the Internet connection is working, a Connection Success message displays. 5. To proceed to wireless network configuration, click Next. See "Using the Setup Wizard to Configure Your Wireless Network" on page 1-9. Note: If your Internet connection is not working, see Chapter 6, "Troubleshooting". Using the Setup Wizard to Configure Your Wireless Network The Setup Wizard prompts you to change the router password and enter wireless settings. 1. Enter the settings: · Password. The router has its own user name and password, which are admin and password, both in lowercase letters.

You can change the password. · Region. Depending on your location, you might be prompted to select the region where the router will operate. · Wireless Network Name (SSID). The name that identifies your wireless network. The default is NETGEAR. Note: The SSID is case-sensitive. NETGEAR is not the same as Netgear or netgear. · Secure Your Wireless Network. For initial wireless setup, click No.

When your wireless connections are working, NETGEAR strongly recommends that you implement wireless security. For more information about wireless security, see Chapter 2, "Wireless Network Configuration". A summary of your settings is displayed. You should either click Print to print the settings or write them down. Save this information in a secure location for future reference.

2. Click Finish. Your browser automatically goes to the NETGEAR website to verify that the Internet connection is working. 3. For each wireless computer or device that will connect wirelessly to the router, configure its wireless network name (SSID) to match the router.

4. Verify that each wireless computer or device can connect to the Internet via the router. Installing Your Router v1.1, March 2009 1-9 3G Broadband Wireless Router MBR624GU User Manual Logging in to the Router after Installation When you first connect to your router during installation, a Setup Wizard appears. After the initial configuration, you can use your Web browser to log into the router. Note: Your computer must be configured for DHCP. For help with configuring DHCP, see the documentation that came with your computer or see the link to the online document in "Preparing a Computer for Network Access" on page B-1. To log in to the router: 1. Open a Web browser on your computer, and connect to the router by typing <http://192.168.0.1>

or www.routerlogin.com in the address field of your browser. 2. When prompted, enter the router user name and password (admin and password, both in lowercase letters). The Router Status screen displays: Figure 1-9 1-10 v1.



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1, March 2009 Installing Your Router 3G Broadband Wireless Router MBR624GU User Manual For more information about the information displayed in the Router Status screen, see "Router Status" on page 4-4. You can use different methods to configure your router. · Select Setup Wizard from the router menu to set up your Internet connection and wireless network configuration.

See "Accessing the Setup Wizard after Installation" on page 1-11. · You can manually configure the router settings. See "Manually Configuring Your Internet Settings" on page 1-12. · Your router's Push 'N' Connect feature supports Wi-Fi Protected Setup (WPS), which is compatible with WPA or WPA2 security.

Select Add WPS Client to use Push 'N' Connect to add WPS compatible, WPA-capable clients to your wireless network.

See "Using Push 'N' Connect (WPS) to Configure Your Wireless Network" on page 2-13. Accessing the Setup Wizard after Installation 1. Log in to the router as described in the previous section, "Logging in to the Router after Installation" on page 1-10. 2. Select Setup Wizard to go to the Setup Wizard screen:

Figure 1-10 Installing Your Router v1.

1, March 2009 1-11 3G Broadband Wireless Router MBR624GU User Manual 3. Click Next. The Setup Wizard prompts you to configure your Internet connection and wireless network as described in "Using the Setup Wizard to Configure Your Router's Internet Connection" on page 1-8 and "Using the Setup Wizard to Configure Your Wireless Network" on page 1-9. Manually Configuring Your Internet Settings In order to connect to the network, an active broadband service account is required. Please contact your ISP for username, password and the network name. To manually configure your Internet settings:

1. Log in to the router as described in the previous section. 2. Select Broadband Settings, and the following screen displays: Figure 1-11 Table 1-2. Broadband Settings fields Fields and Checkboxes Username Password Pin code Description Internet account login username Internet account password for authentication Pin code of the SIM card, where applicable 1-12 v1.

1, March 2009 Installing Your Router 3G Broadband Wireless Router MBR624GU User Manual Table 1-2. Broadband Settings fields (continued) Fields and Checkboxes Network name/APN PDP type Connect automatically at startup Description ISP network name Type of packet data protocol If this checkbox is selected, the modem automatically connects to the network when powered up. This should be selected after login information is provided. If this check box is selected, the modem will attempt to reconnect to the network when the connection is lost. Under normal situation, this setting should be selected. If this checkbox is cleared (not selected) the unit may roam to any available operator in range and may incur roaming charges. Current WAN port status Reconnect automatically when connection is lost Connect only to preferred operators Connection status The following buttons are available: · Click Connect when you want to manually connect to the network. · Click Disconnect when you want to manually disconnect from current network. · Click Apply when you finish changing the settings. · Click Cancel to discard changes.

· Click Refresh to update connection status. Installing Your Router v1.1, March 2009 1-13 3G Broadband Wireless Router MBR624GU User Manual 1-14 v1.1, March 2009 Installing Your Router Chapter 2 Wireless Network Configuration For a wireless connection, the SSID, also called the wireless network name, and the wireless security setting must be the same for the router and wireless computers or wireless adapters. NETGEAR strongly recommends that you use wireless security.

Warning: Computers can connect wirelessly at a range of several hundred feet. This can allow others outside of your immediate area to access your network. This chapter includes: "Planning Your Wireless Network" "Manually Configuring Your Wireless Settings" on page 2-4 "Specifying Wireless Security" on page 2-7 "Advanced Wireless Settings" on page 2-12 "Using Push 'N' Connect (WPS) to Configure Your Wireless Network" on page 2-13 "Connecting Additional Wireless Client Devices After WPS Setup" on page 2-17 Planning Your Wireless Network For compliance and compatibility between similar products in your area, the operating channel and region must be set correctly. To configure the wireless network, you can either specify the wireless settings, or you can use Wi-Fi Protected Setup (WPS) to automatically set the SSID and implement WPA/WPA2 security. · To manually configure the wireless settings, you must know the following: SSID.

The default SSID for the router is NETGEAR-3G. The wireless mode (802.11g, or 802.11b) that each wireless adapter supports. Wireless security option. To successfully implement wireless security, check each wireless adapter to determine which wireless security option it supports. 2-1 v1.1, March 2009 3G Broadband Wireless Router MBR624GU User Manual See "Manually Configuring Your Wireless Settings" on page 2-4. · Push 'N' Connect (WPS) automatically implements wireless security on the router while, at the same time, allowing you to automatically implement wireless security on any WPS-enabled devices (such as wireless computers and wireless adapter cards). You activate WPS by pressing a WPS button on the router, clicking an onscreen WPS button, or entering a PIN number.

This generates a new SSID and implements WPA/WPA2 security. To set up your wireless network using the WPS feature: Use the WPS button on the side of the router (there is also an onscreen WPS button), or enter the PIN of the wireless device. Make sure that all wireless computers and wireless adapters on the network are Wi-Fi certified and WPA or WPA 2 capable, and that they support WPS configuration. See "Using Push 'N' Connect (WPS) to Configure Your Wireless Network" on page 2-13. Wireless Placement and Range Guidelines The range of your wireless connection can vary significantly based on the physical placement of the router. The latency, data throughput performance, and notebook power consumption of wireless adapters also vary depending on your configuration choices. For best results, place your router according to the following guidelines: Near the center of the area in which your PCs will operate. In an elevated location such as a high shelf where the wirelessly connected PCs have line-of-sight access (even if through walls). Away from sources of interference, such as PCs, microwave ovens, and 2.4 GHz cordless phones. Away from large metal surfaces.



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Put the antenna in a vertical position to provide the best side-to-side coverage. Put the antenna in a horizontal position to provide the best up-and-down coverage. If using multiple access points, it is better if adjacent access points use different radio frequency channels to reduce interference. The recommended channel spacing between adjacent access points is 5 channels (for example, use Channels 1 and 6, or 6 and 11).

The time it takes to establish a wireless connection can vary depending on both your security settings and placement. WEP connections can take slightly longer to establish. Also, WEP encryption can consume more battery power on a notebook computer. 2-2 v1.1, March 2009 Wireless Network Configuration 3G Broadband Wireless Router MBR624GU User Manual Wireless Security Options Indoors, computers can connect over 802.

11g wireless networks at a maximum range of up to 300 feet. Such distances can allow for others outside your immediate area to access your network. Unlike wired network data, your wireless data transmissions can extend beyond your walls and can be received by anyone with a compatible adapter. For this reason, use the security features of your wireless equipment. The Wireless Router provides highly effective security features which are covered in detail in this chapter. Deploy the security features appropriate to your needs. There are several ways you can enhance the security of your wireless network: Figure 2-1 · Restrict Access Based on MAC Address. You can allow only trusted PCs to connect so that unknown PCs cannot wirelessly connect to the router. Restricting access by MAC address 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 wireless network 'discovery' feature of some products, such as Windows XP, but the data is still exposed. WEP. Wired Equivalent Privacy (WEP) data encryption provides data security. WEP Shared Key authentication and WEP data encryption block all but the most determined eavesdropper. This data encryption mode has been superseded by WPA-PSK and WPA2-PSK. WPA-802.1x, WPA2-802.1x. Wi-Fi Protected Access (WPA) with user authentication implemented using IEEE 802.

1x and RADIUS servers. WPA-PSK (TKIP), WPA2-PSK (AES). Wi-Fi Protected Access (WPA) using a pre-shared key to perform authentication and generate the initial data encryption keys. The very strong authentication along with dynamic per frame re-keying of WPA makes it virtually impossible to compromise. 2-3 v1.

1, March 2009 · · · Wireless Network Configuration 3G Broadband Wireless Router MBR624GU User Manual For more information about wireless technology, see the link to the online document in "Wireless Communications" in Appendix B. Manually Configuring Your Wireless Settings You can view or manually configure the wireless settings for the router in the Wireless Settings screen. If you want to make changes, make sure to note the current settings first. Note: If you use a wireless computer to change the wireless network name (SSID) or wireless security settings, you will be disconnected when you click Apply. To avoid this problem, use a computer with a wired connection to access the router.

To view or manually configure the wireless settings: 1. Log in to the router at its default LAN address of <http://192.168.0.1> with its default user name of admin, and default password of password, or using whatever user name, password, and LAN address you have chosen for the router. 2. Select Wireless Settings from the main menu to display the Wireless Settings screen: Figure 2-2 2-4 v1.1, March 2009 Wireless Network Configuration 3G Broadband Wireless Router MBR624GU User Manual The settings for this screen are explained in Table 2-1. 3. Select the region in which the router will operate.

4. For initial configuration and test, leave the other settings unchanged. 5. To save your changes, click Apply. 6. Configure and test your computers for wireless connectivity. Program the wireless adapter of your computers to have the same SSID and wireless security settings as your router. Check that they have a wireless link and are able to obtain an IP address by DHCP from the router. If there is interference, adjust the channel. Table 2-1.

Wireless Settings Settings Wireless Network Name (SSID) Description The SSID is also known as the wireless network name. Enter a 32-character (maximum) name in this field. This field is case-sensitive. 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 wireless network must use the SSID.

The location where the Product Family is used. The wireless channel used by the gateway. The default is Channel 6. Do not change the wireless channel unless you experience interference (shown by lost connections or slow data transfers). If this happens, you might need to experiment with different channels to see which is the best.

The default is g & b, which allows both 802.11g and 802.11b wireless stations access. Note that in b only mode, 802.11g wireless stations can connect if they can operate in 802.11b mode. Region Channel Mode Wireless Network Configuration v1.1, March 2009 2-5 3G Broadband Wireless Router MBR624GU User Manual Table 2-1. Wireless Settings (continued) Settings Wireless Access Enable Wireless Access Point Point Description Selected by default, this setting enables the wireless radio, which allows the router to work as a wireless access point. Turning off the wireless radio can be helpful for configuration, network tuning, or troubleshooting.

Selected by default, the router broadcasts its SSID, allowing wireless stations that have a null (blank) SSID to adopt the correct SSID. If you disable broadcast of the SSID, only devices with the correct SSID can connect. This nullifies the wireless network discovery feature of products such as Windows XP, but the data is still exposed to equipment like wireless sniffers. For this reason NETGEAR recommends that you also enable wireless security. This feature is disabled by default. If it is enabled, wireless stations cannot communicate with each other or with stations on the wired network. Access control is disabled by default so that any computer configured with the correct SSID can connect. See "Restricting Access by MAC Address". · Disabled. You can use this setting to establish wireless connectivity before implementing wireless security.

NETGEAR strongly recommends that you implement wireless security. · WEP (Wired Equivalent Privacy). Use encryption keys and data encryption for data security. You can select 64-bit or 128-bit encryption. See "Configuring WEP". · WPA-PSK (WiFi Protected Access Pre-Shared Key).



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Allow only computers configured with WPA to connect to the router. See "Configuring WPA, WPA2, or WPA/WPA2". · WPA2-PSK (Wi-Fi Protected Access with 2 Pre-Shared Keys). Allow only computers configured with WPA2 to connect to the router.

See "Configuring WPA, WPA2, or WPA/WPA2". · WPA-PSK + WPA2-PSK. Allow computers configured with either WPA-PSK or WPA2-PSK security to connect to the router. See "Configuring WPA, WPA2, or WPA/WPA2". · The WPA-802.1x, WPA2-802.1, and WPA-802.1x + WPA2-802.1 options utilize user authentication implemented using IEE 802.1x and Radius servers.

See "Configuring WPA, WPA2, or WPA/WPA2". Allow Broadcast Name (SSID) Wireless Isolation Wireless Station Turn Access Control On Access List Security Options 2-6 v1.1, March 2009 Wireless Network Configuration 3G Broadband Wireless Router MBR624GU User Manual Specifying Wireless Security To set up wireless security, you can either manually configure it in the Wireless Settings screen, or you can use Wi-Fi Protected Setup (WPS) to automatically set the SSID and implement WPA/ WPA2 security (see "Using Push 'N' Connect (WPS) to Configure Your Wireless Network" on page 2-13. This section explains how to specify these wireless security features: · "Wireless Station Access Control" · "Restricting Access by MAC Address" on page 2-8" · "Configuring WEP" on page 2-10" · "Configuring WPA, WPA2, or WPA/WPA2" on page 2-11" Wireless Station Access Control By default, any wireless PC that is configured with the correct SSID and wireless security settings is allowed access to your wireless network. You can use Wireless Access Point settings in the Wireless Setting screen to further restrict wireless access to your network: Figure 2-3 · Turning off wireless connectivity completely. You can completely turn off the wireless portion of the router. For example, if you use your notebook computer to wirelessly connect to your router, and you take a business trip, you can turn off the wireless portion of the router while you are traveling. Other members of your household who use computers connected to the router via Ethernet cables can still use the router. To do this, clear the Enable Wireless Access Point check box on the Wireless Settings screen, and then click Apply. Wireless Network Configuration v1.

1, March 2009 2-7 3G Broadband Wireless Router MBR624GU User Manual · Hiding your wireless network name (SSID). By default, the router is set to broadcast its wireless network name (SSID). You can restrict wireless access to your network by not broadcasting the wireless network name (SSID). To do this, clear the Allow Broadcast of Name (SSID) check box on the Wireless Settings screen, and then click Apply. Wireless devices will not "see" your router.

You must configure your wireless devices to match the wireless network name (SSID) of the router. Note: The SSID of any wireless access adapters must match the SSID you configure in the router. If they do not match, you will not get a wireless connection to the router. · Restricting access by MAC address.

See "Restricting Access by MAC Address".

Restricting Access by MAC Address For increased security, you can restrict access to the wireless network to allow only specific PCs based on their MAC addresses. You can restrict access to only trusted PCs so that unknown PCs cannot wirelessly connect to the Wireless Router. MAC address filtering adds an obstacle against unwanted access to your network, but the data broadcast over the wireless link is fully exposed. To restrict access based on MAC addresses:

1. Log in to the router at its default LAN address of <http://192.168.0.1> with its default user name of admin, and default password of password, or using whatever user name, password, and LAN address you have chosen for the router. Note: If you configure the Product Family from a wireless computer, add your computer's MAC address to the access list. Otherwise you will lose your wireless connection when you click Apply.

You must then access the router from a wired computer, or from a wireless computer that is on the access control list, to make any further changes. 2-8 v1.1, March 2009 Wireless Network Configuration 3G Broadband Wireless Router MBR624GU User Manual 2. From the main menu, select Wireless Settings, and then click Setup Access List to display the Wireless Station Access List screen. Figure 2-4 The trusted wireless stations listed on this screen are the wireless clients that will have access to the wireless network when the list is enabled. 3. Adjust the list as needed for your network. You can add devices to the Trusted Wireless Stations list using either of the following methods: · If the computer is in the Available Wireless Stations table, select the radio button of that computer to capture its MAC address. Use the Add New Station Manually fields to enter the MAC address of the device to be added. The MAC address can usually be found on the bottom of the wireless device.

Note: If no device name appears when you enter the MAC address, you can type a descriptive name for the computer that you are adding. 4. Click Add, and then click Apply to save these settings. Now, only devices on this list will be allowed to wirelessly connect to the Product Family. Wireless Network Configuration v1.

1, March 2009 2-9 3G Broadband Wireless Router MBR624GU User Manual Configuring WEP Note: If you use a wireless computer to configure wireless security settings, you will be disconnected when you click Apply. Reconfigure your wireless computer to match the new settings, or access the router from a wired computer to make further changes. To configure WEP data encryption: 1. Log in to the router at its default LAN address of <http://192.168.0.1> with its default user name of admin, and default password of password, or using whatever user name, password, and LAN address you have chosen for the router. 2. From the main menu, select Wireless Settings to display the Wireless Settings screen. 3. In the Security Options section, select the WEP (Wired Equivalent Privacy) radio button: Figure 2-5 4. Select the Authentication Type: Automatic, Open System, or Shared Key. The default is Open System. Note: The authentication scheme is separate from the data encryption. You can select an authentication scheme that requires a shared key but still leaves the data transmissions unencrypted.

If you require strong security, use both the Shared Key and WEP encryption settings. 5. Select the Encryption Strength setting: · WEP (Wired Equivalent Privacy) 64-bit encryption. Enter 10 hexadecimal digits (any combination of 09, af, or AF). 2-10 v1.1, March 2009 Wireless Network Configuration 3G Broadband Wireless Router MBR624GU User Manual · WEP (Wired Equivalent Privacy) 128-bit encryption.



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Enter 26 hexadecimal digits (any combination of 09, af, or AF). 6. Enter the encryption keys. 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: · Passphrase. To use a passphrase to generate the keys, enter a passphrase, and click Generate. This automatically creates the keys. Wireless stations must use the passphrase or keys to access the router. Note: Not all wireless adapters support passphrase key generation.

· Key 1-Key4. These values are not case-sensitive. You can manually enter the four data encryption keys. These values must be identical on all computers and access points in your network. Enter 10 hexadecimal digits (any combination of 09, af, or AF).

7. Select which of the four keys will be the default. Data transmissions are always encrypted using the default key. The other keys can be used only to decrypt received data. The four entries are disabled if WPA-PSK or WPA authentication is selected. 8. Click Apply to save your settings. Configuring WPA, WPA2, or WPA/WPA2 Both WPA and WPA2 provide strong data security. WPA with TKIP is a software implementation that can be used on Windows systems with Service Pack 2 or later; WPA2 with AES is a hardware implementation; see your device documentation before implementing it. Consult the product documentation for your wireless adapter for instructions for configuring WPA settings.

Note: If you use a wireless computer to configure wireless security settings, you will be disconnected when you click Apply. If this happens, reconfigure your wireless computer to match the new settings, or access the router from a wired computer to make further changes. Wireless Network Configuration v1.1, March 2009 2-11 3G Broadband Wireless Router MBR624GU User Manual To configure WPA or WPA2 in the router: 1. Log in to the router at its default LAN address of <http://192.168.0.1> with its default user name of admin and default password of password, or using whatever user name, password, and LAN address you have chosen for the router. 2. Select Wireless Settings from the main menu.

3. On the Wireless Setting screen, select the radio button for the WPA or WPA2 option of your choice. 4. The settings displayed on the screen depend on which security option you select. 5.

For WPA-PSK or WPA2-PSK, enter the passphrase. 6. If prompted, enter the settings for the Radius server. For WPA-802.1x or WPA2-802.

1x, these settings are required for communication with the primary Radius server. · · Primary Radius Server IP Address. The IP address of the Radius server. The default is 0.0.0.0 Radius Port. Port number of the Radius server. The default is 1812. Shared Key.

This is shared between the wireless access point and the Radius server during authentication. 7. To save your settings, click Apply. Advanced Wireless Settings The Advanced Wireless Settings screen includes settings for Push 'N' Connect (WPS) and for wireless distribution system (WDS) setup. From the main menu, select Advanced Wireless Settings to display the following screen: Figure 2-6 2-12 v1.1, March 2009 Wireless Network Configuration 3G Broadband Wireless Router MBR624GU User Manual · WPS (Push 'N' Connect). The WPS settings show the router PIN, the Disable Router's PIN check box and the Keep Existing Wireless Settings check box. By default, these check boxes are cleared. This allows the WPS clients to discover the router's PIN and lets router to automatically generate the SSID and WPA/WPA2 security settings when it implements WPS. After WPS is implemented, the router automatically selects the Keep Existing Wireless Settings check box so that your SSID and wireless security settings remain the same if other WPS-enabled devices are added later.

· WDS. Select this radio button to configure a wireless distribution system (WDS). You can build large bridged wireless networks. See "Wireless Bridging and Repeating" in Chapter 5. Using Push 'N' Connect (WPS) to Configure Your Wireless Network If your wireless clients support Wi-Fi Protected Setup (WPS), you can use this feature to configure the router's SSID and security settings and, at the same time, connect the wireless client securely and easily to the router. Look for the symbol on your client device (computers that will connect wirelessly to the router are clients). WPS automatically configures the network name (SSID) and wireless security settings for the router (if the router is in its default state) and broadcasts these settings to the wireless client. Some considerations regarding WPS are: · · WPS supports only WPA-PSK and WPA2-PSK wireless security. WEP security is not supported by WPS. NETGEAR's Push 'N' Connect feature is based on the WPS standard.

All other Wi-Fi-certified and WPS-capable products should be compatible with NETGEAR products that implement Push 'N' Connect. If your wireless network will include a combination of WPS capable devices and non-WPS capable devices, NETGEAR suggests that you set up your wireless network and security settings manually first, and use WPS only for adding additional WPS capable devices. See "Adding Both WPS and Non-WPS Clients" on page 2-17.

A WPS client can be added using the Push Button method or the PIN method. · · Using the Push Button. This is the preferred method. See the following section, "Using a WPS Button to Add a WPS Client". Entering a PIN. For information about using the PIN method, see "Using PIN Entry to Add a WPS Client" on page 2-15. 2-13 v1.

1, March 2009 Wireless Network Configuration 3G Broadband Wireless Router MBR624GU User Manual Using a WPS Button to Add a WPS Client Any wireless computer or wireless adapter that will connect to the router wirelessly is a client. The client must support a WPS button, and must have a WPS configuration utility, such as the NETGEAR Smart Wizard or Atheros Jumpstart. To use the router WPS button to add a WPS client: 1. Log in to the router at its default LAN address of <http://192.168.0.1> with its default user name of admin and default password of password, or using whatever LAN address and password you have set up. 2. On the router main menu, select Add a WPS Client, and then click Next. The following screen displays: WPS button Figure 2-7

By default, the Push Button (recommended) radio button is selected. 3. Either press the WPS button on the side of the router, or click the onscreen button. The router tries to communicate with the client for 2 minutes. 4. Go to the client wireless computer, and run a WPS configuration utility.

Follow the utility's instructions to click a WPS button. 5. Go back to the router screen to check for a message. 2-14 v1.1, March 2009 Wireless Network Configuration 3G Broadband Wireless Router MBR624GU User Manual The router WPS screen displays a message confirming that the client was added to the wireless network.



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The router generates an SSID, and implements WPA/WPA2 wireless security. The router will keep these wireless settings unless you change them, or you clear the Keep Existing Wireless Settings check box in the WPS Settings screen. Figure 2-8 6. Note the new SSID and WPA/WPA2 password for the wireless network. You can view these settings in the Wireless Settings screen. See "Manually Configuring Your Wireless Settings" on page 2-4. To access the Internet from any computer connected to your router, launch a browser such as Microsoft Internet Explorer or Mozilla Firefox. You should see the router's Internet LED blink, indicating communication to the ISP. Note: If no WPS-capable client devices are located during the 2-minute timeframe, the SSID will not be changed, and no security will be implemented on the router. Using PIN Entry to Add a WPS Client Any wireless computer or wireless adapter that will connect to the router wirelessly is a client.

The client must support a WPS PIN, and must have a WPS configuration utility, such as the NETGEAR Smart Wizard or Atheros Jumpstart. The first time you add a WPS client, make sure that the Keep Existing Wireless Settings check box on the WPS Settings screen is cleared. This is the default setting for the router, and allows it to generate the SSID and WPA/WPA2 security settings when it implements WPS. After WPS is implemented, the router automatically selects this check box so that your SSID and wireless security settings remain the same if other WPS-enabled devices are added later. To use a PIN to add a WPS client: 1. Log in to the router at its default LAN address of <http://192.168.0.1> with its default user name of admin and default password of password, or using whatever LAN address and password you have set up. Wireless Network Configuration v1.

1, March 2009 2-15 3G Broadband Wireless Router MBR624GU User Manual 2. On the router main menu, select Add a WPS Client (computers that will connect wirelessly to the router are clients), and then click Next. The Add WPS Client screen displays: Figure 2-9 3. Select the PIN Number radio button. 4. Go to the client wireless computer. Run a WPS configuration utility. Follow the utility's instructions to generate a PIN. Take note of the client PIN. 5. From the router Add WPS Client screen, enter the client PIN number, and then click Next. · · The router tries to communicate with the client for 4 minutes.

The router WPS screen displays a message confirming that the client was added to the wireless network. The router generates an SSID, and implements WPA/WPA2 wireless security. 6. Note the new SSID and WPA/WPA2 password for the wireless network. You can view these settings in the Wireless Settings screen. See "Manually Configuring Your Wireless Settings" on page 2-4 To access the Internet from any computer connected to your router, launch a browser such as Microsoft Internet Explorer or Mozilla Firefox. You should see the router's Internet LED blink, indicating communication to the ISP. Note: If no WPS-capable client devices are located during the 2-minute timeframe, the SSID will not be changed and no security will be implemented on the router.

2-16 v1.1, March 2009 Wireless Network Configuration 3G Broadband Wireless Router MBR624GU User Manual Connecting Additional Wireless Client Devices After WPS Setup You can add more WPS clients to your wireless network, or you can add a combination of WPS-enabled clients and clients without WPS. Adding More WPS Clients Note: Your wireless settings remain the same when you add another WPS-enabled client, as long as the Keep Existing Wireless Settings checkbox is selected in the Advanced Wireless screen (listed under the Advanced heading in the router main menu). If you clear this checkbox, when you add the client, a new SSID and passphrase will be generated, and all existing connected wireless clients will be disassociated and disconnected from the router. To add a wireless client device that is WPS-enabled: 1. Follow the procedures in "Using a WPS Button to Add a WPS Client" on page 2-14 or "Using PIN Entry to Add a WPS Client" on page 2-15. 2. To view a list of all devices connected to your router (including wireless and Ethernetconnected), see "Viewing Attached Devices" on page 4-8. Adding Both WPS and Non-WPS Clients For non-WPS clients, you cannot use the WPS setup procedures to add them to the wireless network. You must record, and then manually enter your security settings (see "Manually Configuring Your Wireless Settings" on page 2-4).

To connect a combination of non-WPS enabled and WPS-Enabled clients to the router: 1. Restore the router to its factory default settings (press both the Wireless and WPS buttons on the side of the router for 5 seconds). When the factory settings are restored, all existing wireless clients are disassociated and disconnected from the router. 2. Configure the network names (SSIDs), select the WPA/PSK + WPA2/PSK radio button on the Wireless Settings screen (see "Manually Configuring Your Wireless Settings" on page 2-4).

and click Apply. On the WPA/PSK + WPA2/PSK screen, select a passphrase and click Apply. Record this information to add additional clients. Wireless Network Configuration v1.1, March 2009 2-17 3G Broadband Wireless Router MBR624GU User Manual 3.

For the non-WPS devices that you want to connect, open the networking utility and follow the utility's instructions to enter the security settings that you selected in Step 2 (the SSID, WPA/PSK + WPA2/PSK security method, and passphrase). 4. For the WPS devices that you want to connect, follow the procedure "Using a WPS Button to Add a WPS Client" on page 2-14 or "Using PIN Entry to Add a WPS Client" on page 2-15. The settings that you configured in Step 2 are broadcast to the WPS devices so that they can connect to the router. Note: To make sure that your new wireless settings remain in effect, verify that the Keep Existing Wireless Settings checkbox is selected in the WPS Settings screen. 5. To view a list of all devices connected to your router (including wireless and Ethernetconnected), see "Viewing Attached Devices" on page 4-8. 2-18 v1.1, March 2009 Wireless Network Configuration Chapter 3 Protecting Your Network This chapter describes how to use the basic firewall features of the Wireless Router to protect your network. Protecting Access to Your Wireless Router For security reasons, the router has its own user name and password.

Also, after a period of inactivity for a set length of time, the administrator login automatically disconnects. When prompted, enter admin for the router user name and password for the router password. You can use procedures in the following sections to change the router password and the amount of time for the administrator's login time-out. Note: The user name and password are not the same as a user name or password you might use to log in to your Internet connection.



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