



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ZYXEL NBG-4615. You'll find the answers to all your questions on the ZYXEL NBG-4615 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ZYXEL NBG-4615
User guide ZYXEL NBG-4615
Operating instructions ZYXEL NBG-4615
Instructions for use ZYXEL NBG-4615
Instruction manual ZYXEL NBG-4615

NBG4615

Wireless N Gigabit NetUSB Router

User's Guide



Default Login Details

IP Address <http://192.168.1.1>
Password 1234

Firmware Version 1.0
Edition 1, 12/2010

www.zyxel.com

ZyXEL

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[You're reading an excerpt. Click here to read official ZYXEL NBG-4615 user guide](http://yourpdfguides.com/dref/3992651)
<http://yourpdfguides.com/dref/3992651>

Manual abstract:

· Type [CTRL]+[F] to open the Adobe Reader search utility and enter a word or phrase. This can help you quickly pinpoint the information you require. You can also enter text directly into the toolbar in Reader. · To quickly move around within a page, press the [SPACE] bar. This turns your cursor into a "hand" with which you can grab the page and move it around freely on your screen. · Embedded hyperlinks are actually cross-references to related text. Click them to jump to the corresponding section of the User's Guide PDF. Related Documentation · Quick Start Guide The Quick Start Guide is designed to help you get your NBG4615 up and running right away. It contains information on setting up your network and configuring for Internet access. · Supporting Disc The embedded Web Help contains descriptions of individual screens and supplementary information.

· Support Disc Refer to the included CD for support documents. NBG4615 User's Guide 3 About This User's Guide Documentation Feedback Send your comments, questions or suggestions to: techwriters@zyxel.com.tw Thank you! The Technical Writing Team, ZyXEL Communications Corp., 6 Innovation Road II, Science-Based Industrial Park, Hsinchu, 30099, Taiwan.

Need More Help? More help is available at www.zyxel.com. · Download Library Search for the latest product updates and documentation from this link. Read the Tech Doc Overview to find out how to efficiently use the User Guide, Quick Start Guide and Command Line Interface Reference Guide in order to better understand how to use your product.

· Knowledge Base If you have a specific question about your product, the answer may be here. This is a collection of answers to previously asked questions about ZyXEL products. · Forum This contains discussions on ZyXEL products. Learn from others who use ZyXEL products and share your experiences as well. 4 NBG4615 User's Guide About This User's Guide Customer Support Should problems arise that cannot be solved by the methods listed above, you should contact your vendor. If you cannot contact your vendor, then contact a ZyXEL office for the region in which you bought the device. See http://www.zyxel.com/web/contact_us.php for contact information.

Please have the following information ready when you contact an office. · Product model and serial number. · Warranty Information. · Date that you received your device. NBG4615 User's Guide 5 Document Conventions Document Conventions Warnings and Notes These are how warnings and notes are shown in this User's Guide. Warnings tell you about things that could harm you or your device. Note: Notes tell you other important information (for example, other things you may need to configure or helpful tips) or recommendations. Syntax Conventions · The NBG4615 may be referred to as the "NBG4615", the "device", the "product" or the "system" in this User's Guide. · Product labels, screen names, field labels and field choices are all in bold font. · A key stroke is denoted by square brackets and uppercase text, for example, [ENTER] means the "enter" or "return" key on your keyboard.

· "Enter" means for you to type one or more characters and then press the [ENTER] key. "Select" or "choose" means for you to use one of the predefined choices. · A right angle bracket (>) within a screen name denotes a mouse click. For example, Maintenance > Log > Log Setting means you first click Maintenance in the navigation panel, then the Log sub menu and finally the Log Setting tab to get to that screen. · Units of measurement may denote the "metric" value or the "scientific" value.

For example, "k" for kilo may denote "1000" or "1024", "M" for mega may denote "1000000" or "1048576" and so on. · "e.g.," is a shorthand for "for instance", and "i.e.

," means "that is" or "in other words". 6 NBG4615 User's Guide Document Conventions Icons Used in Figures Figures in this User's Guide may use the following generic icons. The NBG4615 icon is not an exact representation of your device. NBG4615 Computer Notebook computer Server DSLAM Firewall Telephone Switch Router Modem NBG4615 User's Guide 7 Safety Warnings Safety Warnings · Do NOT use this product near water, for example, in a wet basement or near a swimming pool. · Do NOT expose your device to dampness, dust or corrosive liquids. · Do NOT store things on the device. · Do NOT install, use, or service this device during a thunderstorm. There is a remote risk of electric shock from lightning. · Connect ONLY suitable accessories to the device. · Do NOT open the device or unit.

Opening or removing covers can expose you to dangerous high voltage points or other risks. ONLY qualified service personnel should service or disassemble this device. Please contact your vendor for further information. · Make sure to connect the cables to the correct ports. · Place connecting cables carefully so that no one will step on them or stumble over them. · Always disconnect all cables from this device before servicing or disassembling. · Use ONLY an appropriate power adaptor or cord for your device. · Connect the power adaptor or cord to the right supply voltage (for example, 110V AC in North America or 230V AC in Europe). · Do NOT allow anything to rest on the power adaptor or cord and do NOT place the product where anyone can walk on the power adaptor or cord. · Do NOT use the device if the power adaptor or cord is damaged as it might cause electrocution.

· If the power adaptor or cord is damaged, remove it from the power outlet. · Do NOT attempt to repair the power adaptor or cord. Contact your local vendor to order a new one. · Do not use the device outside, and make sure all the connections are indoors. There is a remote risk of electric shock from lightning. · Do NOT obstruct the device ventilation slots, as insufficient airflow may harm your device. · Antenna Warning! This device meets ETSI and FCC certification requirements when using the included antenna(s). Only use the included antenna(s). · If you wall mount your device, make sure that no electrical lines, gas or water pipes will be damaged. Your product is marked with this symbol, which is known as the WEEE mark.

WEEE stands for Waste Electronics and Electrical Equipment. It means that used electrical and electronic products should not be mixed with general waste. Used electrical and electronic equipment should be treated separately. 8 NBG4615 User's Guide Contents Overview Contents Overview User's Guide .



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.....

.....

..... *19 Introduction*

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.... *21 The WPS Button*

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.... *25 ZyXEL NetUSB Share Center Utility*

.....

.....

.....

.....
.....
.....
.....

.....
.....
.....
.....

.... 27 Connection Wizard

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

35 Introducing the Web Configurator

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.... 47 Monitor

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

.... 53 NBG4615 Modes .

.....

.....

.....

.....

.....

.....

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.....

.....

.....

.....

.....

.....

.....

.....

... 59 Easy Mode ..

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 61 Router Mode ...

.....

.....

.....

.....

.....

.....

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.....

.....

.....

.....

.....

.....

.....

.....

... 73 Access Point Mode

.....

.....

.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... *81 Universal Repeater Mode* ..

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

89 WISP Mode

.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

99 Tutorials

.....
.....
.....
.....

.....
.....
.....
.....

.....

.....
.....
.. 149 WAN ...
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 153 LAN ..

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

. 169 DHCP Server

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
... 173 NAT .

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 177 DDNS ...

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

. 187 Static Route

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
..... 189 RIP

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

193 Firewall

.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 195 Content Filtering ...

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 201 Bandwidth Management

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
. 205 Remote Management

.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

. 215 Universal Plug-and-Play (UPnP)

.....
.....
.....

.....
.....
.....

.....
.....
.....

.... 217 Maintenance

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....

.....
.....
.....

..... 225 Troubleshooting ..

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 239 NBG4615 User's Guide 9 Contents Overview 10 NBG4615 User's Guide Table of Contents Table of Contents About This User's Guide ...

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

... 3 Document Conventions.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

. 40 4.3.5 Connection Type: L2TP ..

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.. 41 4.4 Router Password ..

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

. 43 4.5 Wireless Security ...

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 43 4.5.1 Wireless Security: No Security ...

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....
.....

.....
.....
.....

.....
.....
.....
.....

..... 48 5.2.2 Password Screen ...

.....
.....
.....

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

49 5.2.3 Home Screen

.....
.....
.....

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

. 49 5.3 Resetting the NBG4615 ...

.....
.....

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 51 5.3.1 How to Use the RESET Button ...

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.... 52 Chapter 6 Monitor.

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.. 53 6.1 Overview

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 53 6.

2 What You Can Do

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....
.....
.....
.....

.. 53 6.3 The Log Screen

.....
.....
.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 54 6.3.

1 View Log

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 54 6.4 BW MGMT Monitor ...

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

.. 55 6.5 DHCP Table ..

.....

.....

.....

.....

.....

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.....

.....

..... 57 ...

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

58 6.6 Packet Statistics 6.7 WLAN Station Status Chapter 7 NBG4615 Modes.....

.....

.....

.....

.....

.....

.....

.....

.....

.....
.....
.....
.....

.....
.....
.....
59 7.1 Overview

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 59 7.1.1 Web Configurator Modes .

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

59 7.1.2 Device Modes

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

59 Chapter 8 Easy Mode

.....
.....

.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 61 8.1 Overview ..

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.... 61 12 NBG4615 User's Guide Table of Contents 8.2 What You Can Do

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 62 8.3 What You Need to Know ..

.....
.....
.....

.....
.....
.....

.....
.....
.....
.....

62 8.4 Navigation Panel

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.... 63 8.5 Network Map

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.... 63 8.6 Control Panel

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.... 64 8.6.1 Game Engine

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 65 8.6.2 Power Saving ...

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

..... 66 8.6.3 Content Filter ..

.....
.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 67 8.6.
4 Bandwidth MGMT

.....
.....

.....
.....
.....
.....

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

... 71 Chapter 9 Router Mode .

.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

... 73 9.1 Overview

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

73 9.2 Router Mode Status Screen

.....
.....
.....

.....
.....
.....
.....

.....
.....

.....
.....

..... 74 9.2.1 Navigation Panel .

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

... 77 Chapter 10 Access Point Mode

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

. 81 10.1 Overview ...

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

. 81 10.2 What You Can Do

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.. 81 10.3 What You Need to Know ..

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

... 82 10.3.1 Setting your NBG4615 to AP Mode

.....
.....
.....
.....

.....
.....
.....
.....

..... 82 10.3.

2 Accessing the Web Configurator in Access Point Mode

.....
.....

.....
.....
.....

.. 83 10.3.3 Configuring your WLAN, Bandwidth Management and Maintenance Settings

.. 83 10.4 AP Mode Status Screen

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....

... 84 10.5 LAN Screen .

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

... 86 Chapter 11 Universal Repeater Mode ..

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 89 11.1 Overview ...

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

. 89 11.2 What You Can Do

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.. 89 11.3 What You Need to Know

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

... 90 11.4 Setting your NBG4615 to Universal Repeater Mode

.....

.....

.....

.....

.....

.....

.....

. 90 11.5 Universal Repeater Mode Status Screen

.....

.....

.....

.....

.....

.....

.....

.....

.....

.. 92 11.6 Universal Repeater Screen ..

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.... 94 11.6.1 No Security

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

.. 95 11.6.2 Static WEP .

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....

96 11.6.3 WPA(2)-PSK ...

.....
.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

. 97 NBG4615 User's Guide 13 Table of Contents Chapter 12 WISP Mode

.....
.....

.....
.....
.....
.....

.....
.....

.....
.....
.....
.....
.....
.....

..... 99 12.1 Overview ..

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

.. 99 12.2 What You Can Do ..

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

... 99 12.3 What You Need to Know

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

.. 100 12.3.1 Setting your NBG4615 to WISP Mode .

.....
.....

.....
.....
.....
.....

. 100 12.3.2 Accessing the Web Configurator in WISP Mode

.....
.....
.....
.....

100 12.4 WISP Mode Status Screen

.....
.....
.....
.....

.....
.....
.....
.....

101 12.5 Wireless LAN General Screen

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

104 12.5.1 Static WEP

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....

. 106 12.5.2 WPA(2)-PSK ..

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 107 12.

5.3 Site Survey Screen

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 108 Chapter 13 Tutorials ...

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

. 111 13.1 Overview ...

.....

.....

.....

.....

.....

.....

.....

.....
.....
.....
.....

111 13.2 Set Up a Wireless Network with WPS

.....
.....
.....
.....
.....
.....
.....

.....111 13.

2.1 Push Button Configuration (PBC)

.....
.....
.....
.....
.....

.....
.....

.....112 13.2.2 PIN Configuration ..

.....
.....
.....
.....
.....
.....
.....

.....
.....
.....

.....113 13.3 Configure Wireless Security without WPS .

.....
.....
.....
.....
.....
.....

.....
.....

.114 13.3.1 Configure Your Notebook

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.116 13.4 Using Multiple SSIDs on the NBG4615

.....
.....
.....
.....

.....
.....
.....
.....

.....118 13.4.

1 Configuring Security Settings of Multiple SSIDs

.....
.....

.....
.....
.....
.....

...119 13.5 Connecting the NBG4615 (in Universal Repeater Mode) to an AP or Wireless Router .. 122 Part II: Technical Reference

.....
.....
.....

.....
.....
.....
.....

.....
.....

127 Chapter 14 Wireless LAN.....

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

. 129 14.1 Overview ...

.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
..... 129 14.

1.1 What You Can Do

.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.... 130 14.1.2 What You Should Know

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 130 14.2 General Wireless LAN Screen

.....
.....
.....

.....
.....
.....

.....
.....
.....

.... 133 14.3 Wireless Security Screen

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

. 135 14.3.1 No Security

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.. 135 14.3.2 WEP Encryption

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 136 14.3.3 WPA-PSK/WPA2-PSK ...

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

8 WPS Station Screen

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
..... 143 14.

9 Scheduling Screen

.....
.....
.....
.....

.....
.....
.....

.....
.....
.....

. 144 14.10 WDS Screen

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 146 Chapter 15 IPv6....

.....
.....
.....

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
... 149 15.1 Overview .

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

. 149 15.1.1 What You Need to Know ..

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

. 149 15.2 The IPv6 Screen ...

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 150 Chapter 16 WAN...

.....
.....

.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

... 153 16.1 Overview

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 153 16.2 What You Can Do ...

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....

153 16.3 What You Need To Know

.....

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

... 154 16.3.1 Configuring Your Internet Connection

.....
.....
.....
.....

.....
.....
.....
.....

... 154 16.3.2 Multicast

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 155 16.4 Internet Connection .

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 156 16.

4.1 Ethernet Encapsulation

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.. 156 16.4.2 PPPoE Encapsulation ..

.....
.....
.....
.....
.....
.....
.....
.....
.....

158 16.4.3 PPTP Encapsulation

.....
.....
.....
.....
.....
.....
.....
.....

..... 160 16.4.4 L2TP Encapsulation ..

.....
.....
.....
.....
.....
.....
.....
.....

... 163 16.5 Advanced WAN Screen

.....
.....
.....
.....
.....
.....
.....
.....

.....
.....
... 166 16.6 IGMP Snooping Screen .

.....
.....

.....
.....

.....
.....

.....
.....

.....
.....

... 167 Chapter 17 LAN.....

.....
.....

.....
.....

.....
.....

.....
.....

.....
.....

.....
.....

.....
.....

169 17.1 Overview

.....
.....

.....
.....

.....
.....

.....
.....

.....
.....

.....
.....

... 169 17.2 What You Can Do .

.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.. 169 17.3 What You Need To Know

.....
.....

.....
.....
.....

.....
.....
.....

170 17.3.1 IP Pool Setup ...

.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 170 17.3.2 LAN TCP/IP .

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....

.....
.....
.....
.....
.....
.....
.....
.....

... 173 18.1 Overview

.....
.....
.....
.....
.....
.....

.....
.....
.....
.....
.....
.....

..... 173 18.1.1 What You Can Do ..

.....
.....
.....
.....
.....
.....

.....
.....
.....
.....

. 173 18.1.2 What You Need To Know ..

.....
.....
.....
.....
.....
.....
.....
.....

173 18.2 General

.....
.....

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

174 18.3 Advanced

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.... 175 NBG4615 User's Guide 15 Table of Contents Chapter 19 NAT.

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 177 19.1 Overview ...

.....
.....
.....

.....
.....
.....

.....
.....
.....
.....
.....
.....
.....
.....

..... 177 19.1.1 What You Can Do ..

.....
.....
.....
.....
.....
.....
.....
.....
.....

. 178 19.1.2 What You Need To Know ..

.....
.....
.....
.....
.....
.....
.....
.....
.....

178 19.2 General

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

180 19.3 Application

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 181 19.
4 Advanced

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

. 183 19.5 Technical Reference

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 184 19.5.1 NATPort Forwarding: Services and Port Numbers ..

.....
.....
.....

.....
.....
.....

..... 184 19.5.2 NAT Port Forwarding Example .

.....
.....

.....
.....

.....
.....
.....

.....
.....

... 184 19.5.

3 Trigger Port Forwarding

.....
.....
.....

.....
.....
.....

.....
.....

.... 185 19.

5.4 Trigger Port Forwarding Example

.....
.....
.....

.....
.....
.....

..... 186 19.5.5 Two Points To Remember About Trigger Ports ...

.....
.....
.....

.....
.....
.....

. 186 Chapter 20 DDNS.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
187 20.1 Overview

.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.. 187 20.1.1 What You Need To Know .

.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
. 187 20.2 General ...

.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.... 188 Chapter 21 Static Route .

.....

.....
.....
.....
.....

.....

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.. 189 21.1 Overview

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.. 189 21.2 IP Static Route Screen

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.. 190 Chapter 22 RIP

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.....
.....
.....
.....
..... 198 23.
3 Services

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

... 198 Chapter 24 Content Filtering ..

.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....

... 201 24.1 Overview .

.....

.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

. 201 24.1.1 What You Need To Know ..

.....

.....
.....
.....

.....
.....
.....
.....

..... 205 25.1 Overview

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....
.....

..... 205 25.2 What You Can Do ..

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 205 25.3 What You Need To Know ...

.....
.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 206 25.4 General Screen

.....
.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 206 25.5 Advanced Screen

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

... 207 25.5.

1 Rule Configuration: Application Rule Configuration

.....

.....

.....

.....

.....

. 209 25.5.2 Rule Configuration: User Defined Service Rule Configuration

.....

.....

.....

. 210 25.6 Monitor Screen

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....211 25.6.1 Predefined Bandwidth Management Services ...

.....
.....
.....
.....

.. 212 Chapter 26 Remote Management.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

215 26.1 Overview

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

... 215 26.2 What You Need to Know .

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.. 215 26.2.1 Remote Management and NAT

.....
.....

.....
.....

.....
.....
.....
.....

.. 215 26.2.2 System Timeout .

.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.... 216 26.3 WWW Screen

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....

. 216 Chapter 27 Universal Plug-and-Play (UPnP)....

.....

.....
.....
.....

.....
.....
.....

.....
.....

. 217 27.1 Overview ...

.....

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
... 217 27.2 *What You Need to Know* .
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 217 27.2.1 *NAT Traversal* .

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
... 217 27.2.
2 *Cautions with UPnP*

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

218 27.3 *UPnP Screen*

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

225 28.1 Overview

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

... 225 28.2 What You Can Do

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.. 225 28.3 General Screen

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....
... 226 28.

4 Password Screen

.....

.....

.....

.....

.....

.....

.....

.....

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.....

.....

.....

.....

... 226 28.5 Time Setting Screen

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

... 228 28.6 Firmware Upgrade Screen .

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

... 230 NBG4615 User's Guide 17 Table of Contents 28.7 Configuration Backup/Restore Screen

.....

.....

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.....

.....

.....

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.....

.....

231 28.



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NBG-4615 user guide](http://yourpdfguides.com/dref/3992651)
<http://yourpdfguides.com/dref/3992651>

... 239 29.1 Overview

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 239 29.2 Power, Hardware Connections, and LEDs ...

.....
.....
.....
.....

.....
.....
.....
.....

..... 239 29.3 NBG4615 Access and Login ..

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 240 29.
4 Internet Access

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.. 242 29.5 Resetting the NBG4615 to Its Factory Defaults

.....
.....
.....
.....
.....
.....
.....

..... 244 29.6 Wireless Router/AP Troubleshooting ...

.....
.....
.....
.....
.....
.....
.....
.....
.....

..... 244 29.7 ZyXEL Share Center Utility Problems ...

.....
.....
.....
.....
.....
.....
.....

.... 246 Appendix A Product Specifications.

.....
.....
.....
.....
.....
.....
.....

. 249 29.8 Wall-mounting Instructions ...

.....
.....
.....
.....
.....
.....
.....
.....
.....

. 251 Appendix B Pop-up Windows, JavaScript and Java Permissions

.....

.....

.....

.....

..... 253 Appendix C IP Addresses and Subnetting

.....

.....

.....

.....

.....

.....

.....

.....

. 265 Appendix D Setting Up Your Computer's IP Address....

.....

.....

.....

.....

.....

.....

277 Appendix E Wireless LANs

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

... 305 Appendix F Common Services..

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

. 321 Appendix G IPv6

.....

.....

.....

.....

.....
.....
.....

.....
.....
.....

.....
.....

325 Appendix H Open Software Announcements

.....
.....
.....

.....
.....

..... 337 Appendix I Legal Information....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.. 379 Index.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....

.. 387 18 NBG4615 User's Guide PART I User's Guide 19 20 CHAPTER 1.1 Overview 1 Introduction This chapter introduces the main features and applications of the NBG4615. The NBG4615 extends the range of your existing wired network without additional wiring, providing easy network access to mobile users.

You can set up a wireless network with other IEEE 802.11b/g/n compatible devices. A range of services such as a firewall and content filtering are also

available for secure Internet computing. *TM Note: Be sure to install the ZyXEL NetUSB Share Center Utility (for NetUSB functionality) from the included disc, or download the latest version from the zyxel.com website.* 1.2 Applications You can create the following networks using the NBG4615: · Wired. You can connect network devices via the Ethernet ports of the NBG4615 so that they can communicate with each other and access the Internet. · Wireless. Wireless clients can connect to the NBG4615 to access network resources.

· WAN. Connect to a broadband modem/router for Internet access. · WPS. Create an instant network connection with another WPS-compatible device, sharing your network connection with it. · NetUSB. The NBG4615 allows you to connect a USB device (such as printer, scanner, or portable hard disk) directly to the USB port and then share that device over the Internet. You can also connect a USB to the NBG4615, which can then share up to 3 additional USB devices with the rest of your personal home network. NBG4615 User's Guide 21 Chapter 1 Introduction 1.3 Ways to Manage the NBG4615 Use any of the following methods to manage the NBG4615. · WPS (Wi-Fi Protected Setup).

You can use the WPS button or the WPS section of the Web Configurator to set up a wireless network with your ZyXEL Device. · Web Configurator. This is recommended for everyday management of the NBG4615 using a (supported) web browser. 1.4 Good Habits for Managing the NBG4615 Do the following things regularly to make the NBG4615 more secure and to manage the NBG4615 more effectively.

· Change the password. Use a password that's not easy to guess and that consists of different types of characters, such as numbers and letters. · Write down the password and put it in a safe place. · Back up the configuration (and make sure you know how to restore it). Restoring an earlier working configuration may be useful if the device becomes unstable or even crashes.

If you forget your password, you will have to reset the NBG4615 to its factory default settings. If you backed up an earlier configuration file, you would not have to totally re-configure the NBG4615. You could simply restore your last configuration. 1.5 LEDs Figure 1 Front Panel LAN 1-4 Power WAN USB 1-2 WLAN/WPS 22 NBG4615 User's Guide Chapter 1 Introduction The following table describes the LEDs and the WPS button. Table 1 Front panel LEDs and WPS button LED Power COLOR Green Off STATUS On DESCRIPTION The NBG4615 is receiving power and functioning properly. The NBG4615 is not receiving power. The NBG4615's LAN connection is ready. The NBG4615 is sending/receiving data through the LAN with a 10/100Mbps transmission rate. The NBG4615 is sending/receiving data through the LAN with a 1000Mbps transmission rate.

The LAN connection is not ready, or has failed. The NBG4615's WAN connection is ready. The NBG4615 is sending/receiving data through the WAN with a 10/100Mbps transmission rate. The NBG4615 is sending/receiving data through the WAN with a 1000Mbps transmission rate. The WAN connection is not ready, or has failed. The NBG4615 is ready, but is not sending/ receiving data through the wireless LAN. The NBG4615 is sending/receiving data through the wireless LAN. The NBG4615 is negotiating a WPS connection with a wireless client. LAN 1-4 Green On Blinking Amber Off WAN Green Blinking On Blinking Amber Off WLAN/WPS Green Blinking On Blinking Off USB 1-2 Green On Blinking The wireless LAN is not ready or has failed. The NBG4615 has a USB device installed.

The NBG4615 is transmitting and/or receiving data from routers through an installed USB device. There is no USB device connected to the NBG4615. Off NBG4615 User's Guide 23 Chapter 1 Introduction 24 NBG4615 User's Guide CHAPTER 2.1 Overview 2 The WPS Button Your NBG4615 supports WiFi Protected Setup (WPS), which is an easy way to set up a secure wireless network. WPS is an industry standard specification, defined by the WiFi Alliance. WPS allows you to quickly set up a wireless network with strong security, without having to configure security settings manually. Each WPS connection works between two devices. Both devices must support WPS (check each device's documentation to make sure). Depending on the devices you have, you can either press a button (on the device itself, or in its configuration utility) or enter a PIN (a unique Personal Identification Number that allows one device to authenticate the other) in each of the two devices. When WPS is activated on a device, it has two minutes to find another device that also has WPS activated.

Then, the two devices connect and set up a secure network by themselves. For more information on using WPS, see Section 13.2 on page 111. NBG4615 User's Guide 25 Chapter 2 The WPS Button 26 NBG4615 User's Guide CHAPTER 3.1 Overview 3 ZyXEL NetUSB Share Center Utility The ZyXEL NetUSB Share Center Utility allows you to work with the USB devices that are connected directly to the NBG4615 as if they are connected directly to your computer. This allows you to easily share USB-based devices such as printers, scanners, portable hard disks, MP3 players, faxes, and digital cameras (to name a few) with all the other people in your home or office as long as they are connected to the NBG4615 and have the ZyXEL NetUSB Share Center Utility installed. Note: Be sure to install the ZyXEL NetUSB Share Center Utility (for NetUSB functionality) from the included disc, or download the latest version from the zyxel.com.



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com website. Figure 2 Example of NetUSB NBG4615 User's Guide 27 Chapter 3 ZyXEL NetUSB Share Center Utility In this example, a USB printer, fax machine, and scanner are all connected to a USB hub. The hub is in turn connected directly to the NBG4615.

Any computer with a ZyXEL NetUSB Share Center Utility installed on it and which is connected to the NBG4615's LAN ports can access these devices. Note: A USB hub attached to the NBG4615 requires its own power adapter. 3.1.1 Quick Setup This section shows you how to get started using the ZyXEL NetUSB Share Center Utility. 1 Install the ZyXEL NetUSB Share Center Utility on each computer connected to the NBG4615. Connect a USB device to the USB port on the NBG4615. 2 Note: If you are connecting multiple devices to the NBG4615, first connect a USB hub to the NBG4615 then connect your other USB devices to it. 3 Run the ZyXEL NetUSB Share Center Utility to display a list of all connected USB devices, then use it to connect your computer to them. 3.1.2 Installing ZyXEL NetUSB Share Center Utility Before you can access USB devices connected to the NBG4615, you must first install the ZyXEL NetUSB Share Center Utility on any computer on your LAN to which you want to allow access to these devices. Note: In order to properly use the utility with your NBG4615, ensure that the NBG4615 firmware is version v1.00(BWQ.0) or higher.

See Chapter 28 on page 230 for information on updating your device's firmware. To install the ZyXEL NetUSB Share Center Utility: 1 2 Insert the disc that came with your NBG4615 into your computer's disc drive. Run the Setup program by double-clicking it and then follow the on-screen instructions for installing it on your computer. Note: The following operating systems are supported: Windows XP/Vista/7 (32 and 64-bit versions). 28 NBG4615 User's Guide Chapter 3 ZyXEL NetUSB Share Center Utility To open the ZyXEL NetUSB Share Center Utility, double-click its system tray icon.

3 3.2 The ZyXEL NetUSB Share Center Utility This section describes the ZyXEL NetUSB Share Center Utility main window. Figure 3 ZyXEL NetUSB Share Center Utility Main Window 3.2.1 The Menus This section describes the utility's menus. Figure 4 ZyXEL NetUSB Share Center Utility Menus NBG4615 User's Guide 29 Chapter 3 ZyXEL NetUSB Share Center Utility 3.2.2 The Share Center Configuration Window This section describes the utility's configuration window, which allows you to set certain options for the utility. These options do not apply to the USB devices connected to the NBG4615. You can open it by clicking the Tools > Configuration menu command.

Figure 5 ZyXEL NetUSB Share Center Utility Configuration Window The following table describes the labels in this window. Table 2 ZyXEL NetUSB Share Center Utility Configuration Window LABEL Basic Language OK Cancel Apply DESCRIPTION Select this to run the utility automatically when you log into or start up Windows. Select a language for the ZyXEL NetUSB Share Center Utility. You must restart the utility for the change to take effect. Click this to save your changes and close the window. Click this cancel to close the window without saving. Click this to save your changes without closing the window. 30 NBG4615 User's Guide Chapter 3 ZyXEL NetUSB Share Center Utility 3.2.3 The Auto-Connect Printer List Window This section describes the utility's auto-connect printer list window.

You can open it by clicking the Tools > Auto-Connect Printer List menu command. Figure 6 ZyXEL NetUSB Share Center Utility Auto-Connect Printer List Window The following table describes the labels in this screen. Table 3 ZyXEL NetUSB Share Center Utility Auto-Connect Printer List Window LABEL Server IP & Printer Name Windows Printer Name Delete Close DESCRIPTION Displays a list of print server IPs and printer names connected to this NBG4615. Displays a corresponding list of Windows printer names connected to this devices listed in the other list. Select a printer from the list and click this to remove it.

Click this to close the window. 3.3 Manually Connecting to USB Devices This example shows you how to connect to a USB device over your NBG4615 network. Makes sure that you have first installed the ZyXEL NetUSB Share Center Utility on the computer to which you want to connect the USB devices. Note: If you do this with a USB printer but do not yet have the printer driver installed you will be prompted to install one by the Windows New Hardware Wizard.

NBG4615 User's Guide 31 Chapter 3 ZyXEL NetUSB Share Center Utility Connect a USB device to the NBG4615. 1 2 In the ZyXEL NetUSB Share Center Utility, select the device and click Connect. 32 NBG4615 User's Guide Chapter 3 ZyXEL NetUSB Share Center Utility The device mounts on your system. 3 3.4 Automatically Connecting to a USB Printer This example shows you how to set your computer to automatically connect to a shared USB printer over your NBG4615 network each time you log into your computer. Makes sure that you have first installed the ZyXEL NetUSB Share Center Utility. 1 Connect a USB printer to the NBG4615. NBG4615 User's Guide 33 Chapter 3 ZyXEL NetUSB Share Center Utility Open the ZyXEL NetUSB Sharing Center Utility on the computer that you want to use to connect to the printer. 2 Click the Connect button. You may be prompted to install a printer driver or to configure other settings.

3 Finally, click the Auto-Connect Printer menu and select Set Auto-Connect Printer from the menu. 34 NBG4615 User's Guide CHAPTER 4.1 Overview 4 Connection Wizard This chapter provides information on the wizard setup screens in the Web Configurator. The Web Configurator's wizard setup helps you configure your device to access the Internet. Refer to your ISP for your Internet account information. Leave a field blank if you don't have that information.

4.2 Accessing the Wizard Launch your web browser and type "http://192.168.1.

1" as the website address. Type "1234" (default) as the password and click Login. Note: The Wizard appears when the NBG4615 is accessed for the first time or when you reset the NBG4615 to its default factory settings. The Wizard screen opens. Choose your Language and click Connect to Internet.

Figure 7 Welcome NBG4615 User's Guide 35 Chapter 4 Connection Wizard 4.3 Connect to Internet The NBG4615 offers five Internet connection types. They are Static IP, DHCP, PPPoE, PPTP or L2TP. The wizard attempts to detect which WAN connection type you are using. Figure 8 Detecting your Internet Connection Type If the wizard does not detect a connection type, you must select one from the drop-down list box.

Check with your ISP to make sure you use the correct type. Note: If you get an error message, check your hardware connections. Make sure your Internet connection is up and running.



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The following screen depends on your Internet connection type. Enter the details provided by your Internet Service Provider (ISP) in the fields (if any). Figure 9 Internet Connection Type Your NBG4615 detects the following Internet Connection type. Table 4 Internet Connection Type CONNECTION TYPE Static IP DHCP DESCRIPTION Select the Static IP if an administrator assigns the IP address of your computer. Select the DHCP (Dynamic Host Configuration Protocol) option when the WAN port is used as a regular Ethernet. 36 NBG4615 User's Guide Chapter 4 Connection Wizard Table 4 Internet Connection Type (continued) CONNECTION TYPE PPPoE PPTP DESCRIPTION Select the PPPoE (Point-to-Point Protocol over Ethernet) option for a dial-up connection. Select the PPTP (Point-to-Point Tunneling Protocol) option for a dial-up connection, and your ISP gave you an IP address and/or subnet mask.

Select the L2TP (Layer 2 Tunnel Protocol) if you are connecting to another device over another network (like the Internet or VPN). L2TP 4.3.1 Connection Type: DHCP Choose DHCP as the Internet Connection Type when the WAN port is used as a regular Ethernet. Click Next. Figure 10 Internet Connection Type: DHCP Note: If you get an error screen after clicking Next, you might have selected the wrong Internet Connection type. Click Back, make sure your Internet connection is working and select the right Connection Type. Contact your ISP if you are not sure of your Internet Connection type. NBG4615 User's Guide 37 Chapter 4 Connection Wizard 4.3.

2 Connection Type: Static IP Choose Static IP as the Internet Connection Type if your ISP assigned an IP address for your Internet connection. Click Next. Figure 11 Internet Connection Type: Static IP The following table describes the labels in this screen. Table 5 Internet Connection Type: Static IP LABEL Internet Connection Type IP Address Subnet Mask Default Gateway Primary DNS DESCRIPTION Select the Static IP option. Enter the IP address provided by your ISP.

Enter the IP subnet mask in this field. Enter the gateway IP address in this field. DNS (Domain Name System) is for mapping a domain name to its corresponding IP address and vice versa. The DNS server is extremely important because without it, you must know the IP address of a computer before you can access it. The NBG4615 uses a system DNS server (in the order you specify here) to resolve domain names for DDNS and the time server.

Enter the primary DNS server's IP address in the fields provided. Secondary DNS Exit Back Next Enter the secondary DNS server's IP address in the fields provided. Click this to close the wizard screen without saving. Click this to return to the previous screen. Click this to continue. 4.3.3 Connection Type: PPPoE Point-to-Point Protocol over Ethernet (PPPoE) functions as a dial-up connection. PPPoE is an IETF (Internet Engineering Task Force) standard specifying how a host 38 NBG4615 User's Guide Chapter 4 Connection Wizard personal computer interacts with a broadband modem (for example DSL, cable, wireless, etc.) to achieve access to high-speed data networks.

For the service provider, PPPoE offers an access and authentication method that works with existing access control systems (for instance, RADIUS). One of the benefits of PPPoE is the ability to let end users access one of multiple network services, a function known as dynamic service selection. This enables the service provider to easily create and offer new IP services for specific users. Operationally, PPPoE saves significant effort for both the subscriber and the ISP/carrier, as it requires no specific configuration of the broadband modem at the subscriber's site. By implementing PPPoE directly on the NBG4615 (rather than individual computers), the computers on the LAN do not need PPPoE software installed, since the NBG4615 does that part of the task.

Furthermore, with NAT, all of the LAN's computers will have Internet access. Figure 12 Internet Connection Type: PPPoE The following table describes the labels in this screen. Table 6 Internet Connection Type: PPPoE LABEL Internet Connection Type Dynamic IP Static IP IP Address User Name Password Exit DESCRIPTION Select the PPPoE option for a dial-up connection. Select this radio button if your ISP did not assign you a fixed IP address. Select this radio button, provided by your ISP to give the NBG4615 a fixed, unique IP address.

Type the name of your service provider. Type the user name given to you by your ISP. Type the password associated with the user name above. Click this to close the wizard screen without saving. NBG4615 User's Guide 39 Chapter 4 Connection Wizard Table 6 Internet Connection Type: PPPoE (continued) LABEL Back Next DESCRIPTION Click this to return to the previous screen.

Click this to continue. 4.3.4 Connection Type: PPTP Point-to-Point Tunneling Protocol (PPTP) is a network protocol that enables transfers of data from a remote client to a private server, creating a Virtual Private Network (VPN) using TCP/IP-based networks. PPTP supports on-demand, multi-protocol, and virtual private networking over public networks, such as the Internet.

Refer to the appendix for more information on PPTP. The NBG4615 supports one PPTP server connection at any given time. Figure 13 Internet Connection Type: PPTP The following table describes the fields in this screen Table 7 Internet Connection Type: PPTP LABEL Internet Connection Type Dynamic IP Static IP PPTP Address PPTP Subnet Mask DESCRIPTION Select PPTP from the drop-down list box. To configure a PPTP client, you must configure the User Name and Password fields for a PPP connection and the PPTP parameters for a PPTP connection. Select this radio button if your ISP did not assign you a fixed IP address. Select this radio button, provided by your ISP to give the NBG4615 a fixed, unique IP address. Type the (static) IP address assigned to you by your ISP. Type the subnet mask assigned to you by your ISP (if given). 40 NBG4615 User's Guide Chapter 4 Connection Wizard Table 7 Internet Connection Type: PPTP (continued) LABEL PPTP Gateway IP Address PPTP Server IP Address User Name Password Exit Back Next DESCRIPTION Type the gateway IP address of the PPTP server. Type the server IP address of the PPTP server.

Type the user name given to you by your ISP. Type the password associated with the User Name above. Click this to close the wizard screen without saving. Click this to return to the previous screen. Click this to continue. 4.3.5 Connection Type: L2TP The Layer 2 Tunneling Protocol (L2TP) works at layer 2 (the data link layer) to tunnel network traffic between two peer devices over another network (like the Internet). Figure 14 Internet Connection Type: L2TP The following table describes the fields in this screen Table 8 Internet Connection Type: L2TP LABEL Internet Connection Type Dynamic IP Static IP L2TP Address L2TP Subnet Mask DESCRIPTION Select L2TP from the drop-down list box.



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Select this radio button if your ISP did not assign you a fixed IP address.

Select this radio button, provided by your ISP to give the NBG4615 a fixed, unique IP address. Type the (static) IP address assigned to you by your ISP. Type the subnet mask assigned to you by your ISP (if given). NBG4615 User's Guide 41 Chapter 4 Connection Wizard Table 8 Internet Connection Type: L2TP (continued) LABEL L2TP Gateway IP Address L2TP Server IP Address User Name Password Exit Back Next DESCRIPTION Type the gateway IP address of the L2TP server. Type the server IP address of the L2TP server.

Type the user name given to you by your ISP. Type the password associated with the User Name above. Click this to close the wizard screen without saving. Click this to return to the previous screen. Click this to continue.

The NBG4615 connects to the Internet. Figure 15 Connecting to the Internet Note: If the Wizard successfully connects to the Internet, it proceeds to the next step. If you get an error message, go back to the previous screen and make sure you have entered the correct information provided by your ISP. 42 NBG4615 User's Guide Chapter 4 Connection Wizard 4.4 Router Password Change the login password in the following screen. Enter the new password and retype it to confirm. Click Next to proceed with the Wireless Security screen. Figure 16 Router Password 4.5 Wireless Security Configure Wireless Settings. Configure the wireless network settings on your NBG4615 in the following screen.

The fields that show up depend on the kind of security you select. 4.5.1 Wireless Security: No Security Choose No Security in the Wireless Security screen to let wireless devices within range access your wireless network. Figure 17 Wireless Security: No Security NBG4615 User's Guide 43 Chapter 4 Connection Wizard The following table describes the labels in this screen. Table 9 Wireless Security: No Security LABEL Wireless Network Name (SSID) Security mode DESCRIPTION Enter a descriptive name (up to 32 printable 7-bit ASCII characters) for the wireless LAN. If you change this field on the NBG4615, make sure all wireless stations use the same SSID in order to access the network. Select a Security level from the drop-down list box. Choose No Security to have no wireless LAN security configured. If you do not enable any wireless security on your NBG4615, your network is accessible to any wireless networking device that is within range.

Click this to close the wizard screen without saving. Click this to return to the previous screen. Click this to continue. Exit Back Next 4.5.

2 Wireless Security: WPA-PSK/WPA2-PSK Choose WPA-PSK or WPA2-PSK security in the Wireless Security screen to set up a password for your wireless network. Figure 18 Wireless Security: WPA-PSK/WPA2-PSK 44 NBG4615 User's Guide Chapter 4 Connection Wizard The following table describes the labels in this screen. Table 10 Wireless Security: WPA-PSK/WPA2-PSK LABEL Wireless Network Name (SSID) Security mode DESCRIPTION Enter a descriptive name (up to 32 printable 7-bit ASCII characters) for the wireless LAN. If you change this field on the NBG4615, make sure all wireless stations use the same SSID in order to access the network. Select a Security level from the drop-down list box.

Choose WPA-PSK or WPA2-PSK security to configure a Pre-Shared Key. Choose this option only if your wireless clients support WPA-PSK or WPA2PSK respectively. Type from 8 to 63 case-sensitive ASCII characters. You can set up the most secure wireless connection by configuring WPA in the wireless LAN screens. Retype the password to confirm. Click this to close the wizard screen without saving. Click this to return to the previous screen. Click this to continue. Wireless password Verify Password Exit Back Next Congratulations! Open a web browser, such as Internet Explorer, to visit your favorite website.

Note: If you cannot access the Internet when your computer is connected to one of the NBG4615's LAN ports, check your connections.

Then turn the NBG4615 off, wait for a few seconds then turn it back on. If that does not work, log in to the web configurator again and check you have typed all information correctly. See the User's Guide for more suggestions. Figure 19 Congratulations You can also click GO to open the Easy Mode Web Configurator of your NBG4615. NBG4615 User's Guide 45 Chapter 4 Connection Wizard You have successfully set up your NBG4615 to operate on your network and access the Internet. You are now ready to connect wirelessly to your NBG4615 and access the Internet. 46 NBG4615 User's Guide CHAPTER 5.1 Overview 5 Introducing the Web Configurator This chapter describes how to access the NBG4615 Web Configurator and provides an overview of its screens. The Web Configurator is an HTML-based management interface that allows easy setup and management of the NBG4615 via Internet browser. Use Internet Explorer 6.

0 and later versions, Mozilla Firefox 3 and later versions, or Safari 2.0 and later versions. The recommended screen resolution is 1024 by 768 pixels. In order to use the Web Configurator you need to allow: · Web browser pop-up windows from your device. Web pop-up blocking is enabled by default in Windows XP SP (Service Pack) 2.

· JavaScript (enabled by default). · Java permissions (enabled by default). Refer to the Troubleshooting chapter (Chapter 29 on page 239) to see how to make sure these functions are allowed in Internet Explorer. 5.2 Accessing the Web Configurator 1 Make sure your NBG4615 hardware is properly connected and prepare your computer or computer network to connect to the NBG4615 (refer to the Quick Start Guide).

Launch your web browser. Type "http://192.168.1.1" as the website address. Your computer must be in the same subnet in order to access this website address. 2 3 NBG4615 User's Guide 47 Chapter 5 Introducing the Web Configurator 5.2.1 Login Screen Note: If this is the first time you are accessing the Web Configurator, you may be redirected to the Wizard. Refer to Chapter 4 on page 35 for the Connection Wizard screens.

The Web Configurator initially displays the following login screen. Figure 20 Login screen The following table describes the labels in this screen. Table 11 Login screen LABEL Password Language DESCRIPTION Type "1234" (default) as the password. Select the language you want to use to configure the Web Configurator. Click Login. This shows the current weather, either in celsius or fahrenheit, of the city you specify in Section 5.2.3.1 on page 50. This shows the time (hh:mm:ss) and date (yyyy:mm:dd) of the timezone you select in Section 5.

2.3.2 on page 51 or Section 28.5 on page 228. The time is in 24-hour format, for example 15:00 is 3:00 PM.

48 NBG4615 User's Guide Chapter 5 Introducing the Web Configurator 5.2.2 Password Screen You should see a screen asking you to change your password (highly recommended) as shown next.



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Figure 21 Change Password Screen The following table describes the labels in this screen. Table 12 Change Password Screen LABEL New Password Retype to Confirm Apply Ignore DESCRIPTION Type a new password.

Retype the password for confirmation. Click Apply to save your changes back to the NBG4615. Click Ignore if you do not want to change the password this time. Note: The management session automatically times out when the time period set in the Administrator Inactivity Timer field expires (default five minutes; go to Chapter 28 on page 225 to change this). Simply log back into the NBG4615 if this happens. 5.2.3 Home Screen If you have previously logged into the Web Configurator but did not click Logout, you may be redirected to the Home screen. You can also open this screen by clicking Home (Mode or Expert mode screens. or) in the Easy NBG4615 User's Guide 49 Chapter 5 Introducing the Web Configurator The Home screen displays as follows.

Figure 22 Home Screen The following table describes the labels in this screen. Table 13 Home Screen LABEL Go Language DESCRIPTION Click this to open the Easy Mode Web Configurator. Select a language to go to the Easy mode Web Configurator in that language and click Login. (This is just an example). This shows the current weather, either in celsius or fahrenheit, of the city you specify in Section 5.2.3.1 on page 50. (This is just an example). This shows the time (hh:mm:ss) and date (yyyy:mm:dd) of the timezone you select in Section 5.

2.3.2 on page 51 or Section 28.5 on page 228. 5.

2.3.1 Weather Edit You can change the temperature unit and select the location for which you want to know the weather. Click the icon to change the Weather display. Figure 23 Change Weather 50 NBG4615 User's Guide Chapter 5 Introducing the Web Configurator The following table describes the labels in this screen.

Table 14 Change Weather LABEL o DESCRIPTION Choose which temperature unit you want the NBG4615 to display. Select the location for which you want to know the weather. If the city you want is not listed, choose one that is closest to it. Click this to apply the settings and refresh the date and time display. C or F o Change Location Finish 5.2.3.2 Time/Date Edit One timezone can cover more than one country. You can choose a particular country in which the NBG4615 is located and have the NBG4615 display and use the current time and date for its logs. Click the icon to change the Weather display.

Figure 24 Change Password Screen The following table describes the labels in this screen. Table 15 Change Password Screen LABEL Change time zone Finish DESCRIPTION Select the specific country whose current time and date you want the NBG4615 to display. Click this to apply the settings and refresh the weather display. Note: You can also edit the timezone in Section 28.5 on page 228. 5.3 Resetting the NBG4615 If you forget your password or IP address, or you cannot access the Web Configurator, you will need to use the RESET button at the back of the NBG4615 to reload the factory-default configuration file. This means that you will lose all configurations that you had previously saved, the password will be reset to "1234" and the IP address will be reset to "192.168.1.

1". NBG4615 User's Guide 51 Chapter 5 Introducing the Web Configurator 5.3.1 How to Use the RESET Button 1 2 3 Make sure the power LED is on. Press the RESET button for longer than 1 second to restart/reboot the NBG4615.

Press the RESET button for longer than 5 seconds to set the NBG4615 back to its factory-default configurations. 52 NBG4615 User's Guide CHAPTER 6.1 Overview 6 Monitor This chapter discusses read-only information related to the device state of the NBG4615. To access the Monitor screens, go to Expert Mode after login, then click Click open all to show the complete menu. .

You can also click the links in the Summary table of the Status screen to view the bandwidth consumed, packets sent/received as well as the status of clients connected to the NBG4615. 6.2 What You Can Do · Use the Log screen to see the logs for the activity on the NBG4615 (Section 6.3 on page 54). · Use the BW MGMT Monitor screen to view the amount of network bandwidth that applications running in the network are using (Section 6.4 on page 55). · Use the DHCP Table screen to view information related to your DHCP status (Section 6.5 on page 56). · use the Packet Statistics screen to view port status, packet specific statistics, the "system up time" and so on (Section 6.6 on page 57).

· Use the WLAN Station Status screen to view the wireless stations that are currently associated to the NBG4615 (Section 6.7 on page 58). NBG4615 User's Guide 53 Chapter 6 Monitor 6.3 The Log Screen The Web Configurator allows you to look at all of the NBG4615's logs in one location. 6.3.1 View Log Use the View Log screen to see the logged messages for the NBG4615. The log wraps around and deletes the old entries after it fills. Select what logs you want to see from the Display drop list. The log choices depend on your settings in the Log Settings screen.

Click Refresh to renew the log screen. Click Clear to delete all the logs. Figure 25 View Log 54 NBG4615 User's Guide Chapter 6 Monitor You can configure which logs to display in the View Log screen. Go to the Log Settings screen and select the logs you wish to display. Click Apply to save your settings. Click Refresh to start the screen afresh. Figure 26 Log Settings 6.4 BW MGMT Monitor The Bandwidth Management (BW MGMT) Monitor allows you to view the amount of network bandwidth that applications running in the network are using. The bandwidth is measured in kilobytes per second (kbps). The monitor shows what kinds of applications are running in the network, the maximum kbps that each application can use, as well as the percentage of bandwidth it is using.

Figure 27 Summary: BW MGMT Monitor NBG4615 User's Guide 55 Chapter 6 Monitor 6.5 DHCP Table DHCP (Dynamic Host Configuration Protocol, RFC 2131 and RFC 2132) allows individual clients to obtain TCP/IP configuration at start-up from a server. You can configure the NBG4615's LAN as a DHCP server or disable it. When configured as a server, the NBG4615 provides the TCP/IP configuration for the clients. If DHCP service is disabled, you must have another DHCP server on that network, or else the computer must be manually configured. Click the DHCP Table (Details...) hyperlink in the Status screen. Read-only information here relates to your DHCP status.

The DHCP table shows current DHCP client information (including MAC Address, IP Address, and Expiration time) of all network clients using the NBG4615's DHCP server. Figure 28 Summary: DHCP Table The following table describes the labels in this screen. Table 16 Summary: DHCP Table LABEL # MAC Address DESCRIPTION This is the index number of the host computer.



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This field shows the MAC address of the computer with the name in the Host Name field. Every Ethernet device has a unique MAC (Media Access Control) address which uniquely identifies a device. The MAC address is assigned at the factory and consists of six pairs of hexadecimal characters, for example, 00:A0:C5:00:00:02. IP Address Expires in Refresh This field displays the IP address relative to the # field listed above. This field displays the time when the IP address and MAC address association ends. Click Refresh to renew the screen. 56 NBG4615 User's Guide Chapter 6 Monitor 6.

6 Packet Statistics Click the Packet Statistics (Details...) hyperlink in the Status screen. Readonly information here includes port status, packet specific statistics and the "system up time".

The Poll Interval(s) field is configurable and is used for refreshing the screen. Figure 29 Summary: Packet Statistics The following table describes the labels in this screen. Table 17 Summary: Packet Statistics LABEL Port Status DESCRIPTION This is the NBG4615's port type. For the LAN ports, this displays the port speed and duplex setting or Down when the line is disconnected. For the WAN port, it displays the port speed and duplex setting if you're using Ethernet encapsulation and Idle (line (ppp) idle), Dial (starting to trigger a call) and Drop (dropping a call) if you're using PPPoE or PPTP encapsulation. This field displays Down when the line is disconnected. For the WLAN, it displays the maximum transmission rate when the WLAN is enabled and Down when the WLAN is disabled. TxPkts RxPkts Collisions Tx B/s Rx B/s Up Time System Up Time Poll Interval(s) Set Interval Stop This is the number of transmitted packets on this port. This is the number of received packets on this port. This is the number of collisions on this port. This displays the transmission speed in bytes per second on this port. This displays the reception speed in bytes per second on this port. This is the total time the NBG4615 has been for each session. This is the total time the NBG4615 has been on. Enter the time interval in seconds for refreshing statistics in this field.

Click this button to apply the new poll interval you entered in the Poll Interval(s) field. Click Stop to stop refreshing statistics. NBG4615 User's Guide 57 Chapter 6 Monitor 6.7 WLAN Station Status Click the WLAN Station Status (Details...) hyperlink in the Status screen. View the wireless stations that are currently associated to the NBG4615 in the Association List. Association means that a wireless client (for example, your network or computer with a wireless network card) has connected successfully to the AP (or wireless router) using the same SSID, channel and security settings. Figure 30 Summary: Wireless Association List The following table describes the labels in this screen.

Table 18 Summary: Wireless Association List LABEL # MAC Address Association Time Refresh DESCRIPTION This is the index number of an associated wireless station. This field displays the MAC address of an associated wireless station. This field displays the time a wireless station first associated with the NBG4615's WLAN network. Click Refresh to reload the list. 58 NBG4615 User's Guide CHAPTER 7.

1 Overview 7 NBG4615 Modes This chapter introduces the different modes available on your NBG4615. First, the term "mode" refers to two things in this User's Guide. · Web Configurator mode. This refers to the Web Configurator interface you want to use for editing NBG4615 features. · Device mode. This is the operating mode of your NBG4615, or simply how the NBG4615 is being used in the network. 7.1.1 Web Configurator Modes This refers to the configuration interface of the Web Configurator, which has two modes: · Easy: The Web Configurator shows this mode by default. Refer to Chapter 8 on page 61 for more information on the screens in this mode. This interface may be sufficient for users who just want to use the device. · Expert: Advanced users can change to this mode to customize all the functions of the NBG4615. Click Expert Mode after logging into the Web Configurator. The User's Guide Chapter 5 on page 47 through Chapter 28 on page 236 discusses the screens in this mode. 7.

1.2 Device Modes This refers to the operating mode of the NBG4615, which can act as a: · Router: This is the default device mode of the NBG4615. Use this mode to connect the local network to another network, like the Internet. Go to Section 9.2 on page 74 to view the Status screen in this mode. · Access Point: Use this mode if you want to extend your network by allowing network devices to connect to the NBG4615 wirelessly. Go to Section 10.4 on page 84 to view the Status screen in this mode. NBG4615 User's Guide 59 Chapter 7 NBG4615 Modes · Universal Repeater: In this mode, the NBG4615 can be an access point and a wireless client at the same time. Use this mode if there is an existing wireless router or access point in your network and you also want to allow clients to connect to the NBG4615.

Go to Section 11.5 on page 92 to view the Status screen in this mode. · WISP: Use this mode if there is an existing wireless router or access point in the network to which you want to connect your local network. Go to Section 12.4 on page 101 to view the Status screen in this mode.

The following figure is a simple illustration of the device configuration modes of the NBG4615. Figure 31 Device Mode Example For more information on these modes and to change the mode of your NBG4615, refer to Chapter 28 on page 236. The menu for changing device modes is available in Expert mode only. Note: Choose your Device Mode carefully to avoid having to change it later. When changing to another mode, the IP address of the NBG4615 changes. The running applications and services of the network devices connected to the NBG4615 can be interrupted. In WISP mode, you should know the SSID and wireless security details of the access point to which you want to connect. 60 NBG4615 User's Guide CHAPTER 8.1 Overview 8 Easy Mode The Web Configurator is set to Easy Mode by default. You can configure several key features of the NBG4615 in this mode. This mode is useful to users who are not fully familiar with some features that are usually intended for network administrators. When you log in to the Web Configurator, the following screen opens.

Figure 32 Easy Mode: Network Map Navigation Panel Network Map Go to Status Screen Control Panel NBG4615 User's Guide 61 Chapter 8 Easy Mode Click Status to open the following screen. Figure 33 Easy Mode: Status Screen Navigation Panel Go to Network Map Screen Status Screen Control Panel 8.2 What You Can Do You can do the following in this mode: · Use this Navigation Panel to opt out of the Easy mode (Section 8).



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4 on page 63). · Use the Network Map screen to check if your NBG4615 can ping the gateway and whether it is connected to the Internet (Section 8.5 on page 63). · Use the Control Panel to configure and enable NBG4615 features, including wireless security, wireless scheduling and bandwidth management and so on (Section 8.6 on page 64). · Use the Status Screen to view read-only information about the NBG4615, including the WAN IP, MAC Address of the NBG4615 and the firmware version (Section 8.7 on page 71). 8.3 What You Need to Know Between the different device modes, the Control Panel (Section 8.6 on page 64) changes depending on which features are applicable to the mode: · Router Mode: All Control Panel features are available.

62 NBG4615 User's Guide Chapter 8 Easy Mode · Access Point Mode: Only Power Saving and Wireless Security are available. · Universal Repeater Mode: Only Power Saving and Wireless Security are available. · WISP Mode: The available features for this mode are Game Console, Content Filter, Bandwidth MGMT, and Firewall. 8.4 Navigation Panel Use this navigation panel to opt out of the Easy mode.

Figure 34 Control Panel The following table describes the labels in this screen. Table 19 Control Panel ITEM Home Expert Mode Logout DESCRIPTION Click this to go to the Login page. Click this to change to Expert mode and customize features of the NBG4615. Click this to end the Web Configurator session. 8.

5 Network Map Note: The Network MAP is viewable by Windows XP (need to install patch), Windows Vista and Windows 7 users only. For Windows XP (Service Pack 2) users, you can see the network devices connected to the NBG4615 by downloading the LLTD (Link Layer Topology Discovery) patch from the Microsoft Website. Note: Don't worry if the Network Map does not display in your web browser. This feature may not be supported by your system. You can still configure the Control Panel (Section 8.6 on page 64) in the Easy Mode and the NBG4615 features that you want to use in the Expert Mode. NBG4615 User's Guide 63 Chapter 8 Easy Mode When you log into the Network Configurator, the Network Map is shown as follows. Figure 35 Network Map The line connecting the NBG4615 to the gateway becomes green when the NBG4615 is able to ping the gateway. It becomes red when the ping initiating from the NBG4615 does not get a response from the gateway. The same rule applies to the line connecting the gateway to the Internet.

You can also view the devices (represented by icons indicating the kind of network device) connected to the NBG4615, including those connecting wirelessly. Rightclick on the NBG4615 icon to refresh the network map and go to the Wizard. Right click on the other icons to view information about the device. 8.6 Control Panel The features configurable in Easy Mode are shown in the Control Panel. Figure 36 Control Panel Switch ON to enable the feature. Otherwise, switch OFF. If the feature is turned on, the green light flashes. If it is turned off, the red light flashes. Additionally, click the feature to open a screen where you can edit its settings.

64 NBG4615 User's Guide Chapter 8 Easy Mode The following table describes the labels in this screen. Table 20 Control Panel ITEM Game Engine DESCRIPTION Switch ON to maximize bandwidth for gaming traffic in your network. Otherwise, switch OFF. Refer to Section 8.6.

1 on page 65 to see this screen. Power Saving Click this to schedule the wireless feature of the NBG4615. Disabling the wireless function helps lower the energy consumption of the NBG4615. Switch ON to apply wireless scheduling. Otherwise, switch OFF.

Refer to Section 8.6.2 on page 66 to see this screen. Content Filter Click this to restrict access to certain websites, based on keywords contained in URLs, to which you do not want users in your network to open. Switch ON to apply website filtering. Otherwise, switch OFF. Refer to Section 8.6.3 on page 67 to see this screen. Bandwidth MGMT Click this to edit bandwidth management for predefined applications.

Switch ON to have the NBG4615 management bandwidth for uplink and downlink traffic according to an application or service. Otherwise, switch OFF.

Refer to Section 8.6.4 on page 68 to see this screen. Firewall Switch ON to ensure that your network is protected from Denial of Service (DoS) attacks.

Otherwise, switch OFF. Refer to Section 8.6.5 on page 68 to see this screen.

Wireless Security Click this to configure the wireless security, such as SSID, security mode and WPS key on your NBG4615. Refer to Section 8.6.6 on page 69 to see this screen. 8.

6.1 Game Engine When this feature is enabled, the NBG4615 maximizes the bandwidth for gaming traffic that it forwards out through an interface. Figure 37 Game Engine NBG4615 User's Guide 65 Chapter 8 Easy Mode Note: When this is switched on, the Game Console tab in the Bandwidth Mgmt screen is automatically positioned on top. Turn this off if your network is not using gaming. Click OK to close this screen.

8.6.2 Power Saving Use this screen to set the day of the week and time of the day when your wireless LAN is turned on and off. Wireless LAN scheduling is disabled by default. Disabling the wireless capability lowers the energy consumption of the of the NBG4615. Figure 38 Power Saving The following table describes the labels in this screen. Table 21 Power Saving LABEL WLAN Status DESCRIPTION Select On or Off to specify whether the Wireless LAN is turned on or off (depending on what you selected in the WLAN Status field). This field works in conjunction with the Day and For the following times fields. Select Everyday or the specific days to turn the Wireless LAN on or off. If you select Everyday you can not select any specific days.

This field works in conjunction with the For the following times field. Day 66 NBG4615 User's Guide Chapter 8 Easy Mode Table 21 Power Saving (continued) LABEL For the following times (24-Hour Format) DESCRIPTION Select a begin time using the first set of hour and minute (min) drop down boxes and select an end time using the second set of hour and minute (min) drop down boxes. If you have chosen On earlier for the WLAN Status the Wireless LAN will turn on between the two times you enter in these fields. If you have chosen Off earlier for the WLAN Status the Wireless LAN will turn off between the two times you enter in these fields. In this time format, midnight is 00:00 and progresses up to 24:00. For example, 6:00 PM is 18:00. Apply Reset Click Apply to save your changes back to the NBG4615. Click Reset to begin configuring this screen afresh. 8.6.

3 Content Filter Use this screen to restrict access to certain websites, based on keywords contained in URLs, to which you do not want users in your network to open. Figure 39 Content Filter The following table describes the labels in this screen.



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