



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ZYXEL G-4100 V2. You'll find the answers to all your questions on the ZYXEL G-4100 V2 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ZYXEL G-4100 V2
User guide ZYXEL G-4100 V2
Operating instructions ZYXEL G-4100 V2
Instructions for use ZYXEL G-4100 V2
Instruction manual ZYXEL G-4100 V2

G-4100 v2

802.11g Wireless Hotspot Gateway

User's Guide

Version 1.00
7/2006
Edition 1

ZyXEL



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Manual abstract:

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If this equipment does cause harmful interference to radio/television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the equipment and the 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. FCC Radiation Exposure Statement · The device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment, under 47 CFR 2.

1093 paragraph (d)(2). End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC RF exposure compliance requirements, please follow operation instruction as documented in this manual. · This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. · IEEE 802.

11b or 802.11g operation of this product in the U.S.A. is firmware-limited to channels 1 through 11. · To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons. ! 4 Certifications G-4100 v2 User's Guide Notices Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device has been designed for the WLAN 2.4 GHz network throughout the EC region and Switzerland, with restrictions in France. This Class B digital apparatus complies with Canadian ICES-003.

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3 Select the certification you wish to view from this page. Certifications 5 G-4100 v2 User's Guide Safety Warnings For your safety, be sure to read and follow all warning notices and instructions. · 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 can service the device. Please contact your vendor for further information.

· Connect the power cord to the right supply voltage (110V AC in North America or 230V AC in Europe). · Place connecting cables carefully so that no one will step on them or stumble over them. Do NOT allow anything to rest on the power cord and do NOT locate the product where anyone can walk on the power cord. · The PoE (Power over Ethernet) devices that supply or receive power and their connected Ethernet cables must all be completely indoors. · If you wall mount your device, make sure that no electrical, gas or water pipes will be damaged.

· Do NOT install nor use your device during a thunderstorm. There may be a remote risk of electric shock from lightning. · Do NOT expose your device to dampness, dust or corrosive liquids. · Do NOT use this product near water, for example, in a wet basement or near a swimming pool. · Make sure to connect the cables to the correct ports.

· Do NOT obstruct the device ventilation slots, as insufficient airflow may harm your device. · Do NOT store things on the device. · Connect ONLY suitable accessories to the device. · CAUTION: RISK OF EXPLOSION IF BATTERY (on the motherboard) IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS. Dispose them at the applicable collection point for the recycling of electrical and electronic equipment. For detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the store where you purchased the product. This product is recyclable. Dispose of it properly. 6 Safety Warnings G-4100 v2 User's Guide ZyXEL Limited Warranty ZyXEL warrants to the original end user (purchaser) that this product is free from any defects in materials or workmanship for a period of up to two years from the date of purchase.

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co.uk a. "+" is the (prefix) number you enter to make an international telephone call. Customer Support 9 G-4100 v2 User's Guide 10 Customer Support G-4100 v2 User's Guide Table of Contents Copyright ..

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.....

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.....

.....

.....

.....

.....

.....

.....

..... 3 Certifications ...

.....

.....

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.....

.....

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

.....
.....
.....
.....
..... 4 *Safety Warnings*

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

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

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

..... 6 *ZyXEL Limited Warranty*..

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

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

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

..... 7 *Customer Support*..

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

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

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

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

... 8 *Table of Contents* ..

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

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

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

..... *11 List of Figures ...*

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

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

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

..... *19 List of Tables*

.....
.....

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

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

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

.....
.....58 4.
5 DNS Server Address

.....
.....

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

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

.....
59 4.6 PPPoE

.....
.....

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

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

...59 4.6.1 PPP MTU

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

*.....
...59 4.6.
2 TCP MSS*

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

...60 4.7 PPTP

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

...60 4.8 Configuring the WAN and LAN Settings .

.....

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

60 4.9 Server Configuration

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

.63 Chapter 5 Authentication

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

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

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

..... 67 5.1 About the Built-in Authentication

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

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

.....
.....

...67 5.2 Authentication Settings .

.....

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

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

.....
.....

.....
.....
.....
..... 75 7.1 About the Built-in Billing

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

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

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

.75 7.1.1 Accumulation Accounting Method

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

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

...75 7.1.2 Time-to-finish Accounting Method

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

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

....75 7.2 Billing Settings

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

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

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

.....75 12 Table of Contents G-4100 v2 User's Guide Chapter 8 Accounting

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

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

.....

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

.... 79 8.1 About Subscriber Accounts

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

.....
....79 8.

2 Discount Price Plan

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

..79 8.2.1 Charge by Levels .

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

79 8.3 Accounting Settings

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

..79 8.3.1 Charge By Levels Example .

.....

.....

.....

.....

.....

.....

.....

.....

.....82 8.

4 Creating Accounts

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

....83 8.4.1 Creating Accounts in the Web Configurator

.....

.....

.....

.....

.....

.....

.83 8.4.2 Using an Exclusive Printer to Create and Print Subscriber Statements ..85 8.5 Viewing the Account List

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

85 Chapter 9 Credit Card.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....
89 9.1 About the Credit Card Screen

.....
.....

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

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

.....89 9.2 Credit Card Settings ..

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

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

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

.....89 Chapter 10 Keypad .

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

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

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

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

..... 93 10.1 About the Keypad

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

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

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

.....93 10.

2 Keypad Settings

.....

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

.....93 10.3 Keypad Configuration Examples

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

.95 10.3.1 Keypad with Pre-Paid Billing Example ..

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

95 10.3.2 Keypad with Post-Paid Billing Example ...

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

..97 Chapter 11 Customization

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

.... 101 11.

1 About the Customization Screens

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

.....
.....
.....
.101 11.2 About the Login Page Screen

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

...101 11.3 Customizing the Subscriber Login Screen

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

.....101 11.3.1 Standard Subscriber Login Screen .

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

...102 11.3.2 Redirect Subscriber Login Screen

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

.104 11.3.3 Advanced Subscriber Login Screen

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

..105 11.3.4 Framed Subscriber Login Screen .

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

.108 11.4 Adding a Logo ...

.....
.....

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

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

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

...109 11.5 About the Information Windows

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

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

...110 11.5.1 Customizing the Information Windows

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

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

..... 111 11.6 About the Account Printout

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

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

...112 11.6.

1 Customizing the Account Printout

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

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

..112 11.7 Customizing the Credit Card ..

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

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

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

.....118 11.7.1 Credit Card Standard Login Page .

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

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

.....118 11.7.2 Credit Card Service Selection Page ..

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

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

.119 11.7.3 Credit Card Successful Page

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

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

.....123 Table of Contents 13 G-4100 v2 User's Guide 11.7.4 Credit Card Fail Page .

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

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

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

....125 Chapter 12 Pass Through .

.....
.....

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

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

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

..... 127 12.1 About the Pass Through ..

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

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

.....
.....
.....
...127 12.2 Configuring Pass Through .
.....

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

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

.....
.....127 Chapter 13 Filtering

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

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

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

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

..... *131 13.*

1 About Filtering

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

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

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

.....
.....131 13.2 Configuring Filtering ...

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

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

.....
.....

.....
.....

....131 Chapter 14 Share

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

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

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

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

. 135 14.1 About Share

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

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

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

.135 14.2 Configuring Share ...

.....
.....

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

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

..135 Chapter 15 Portal Page, Advertisement Links and Walled Garden...

.....
.....

.....
.....

.... 139 15.

1 Portal Page Advertisement Links and Walled Garden Overview

.....139 15.2 Portal Page .

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

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

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

.....
.....

.....139 15.
3 Advertisement Links

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

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

.....
.....

..140 15.4 Walled Garden ..

.....

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

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

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

...141 15.4.1 Walled Garden Login Example

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

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

.....142 Chapter 16 DDNS

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

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

.....

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

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

... 143 16.1 About DDNS

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

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

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

...143 16.1.1 DYNDNS Wildcard

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

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

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

.....143 16.2 Configuring DDNS

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

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

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

.....143 Chapter 17 LAN Devices

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

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

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

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

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

. 153 18.1 Syslog Configuration

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

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

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

.....153 18.2 Syslog Log Settings Configuration .

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

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

....155 14 Table of Contents G-4100 v2 User's Guide Chapter 19 Session Trace .



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<http://yourpdfguides.com/dref/2433794>

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

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

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

.....
.....

.. 161 19.1 Session Trace ..

.....

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

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

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

....161 19.2 Session Trace Configuration

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

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

.....161 19.

3 Session Trace Filename Convention

.....
.....

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

.....
.....

.162 Chapter 20 Bandwidth

.....
.....

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

.....
.....

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

165 20.1 Bandwidth

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

...165 20.2 Bandwidth Configuration .

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

....165 Chapter 21 Secure Remote

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

167 21.1 Secure Remote Configuration

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

.....167 Chapter 22 Account Generator..

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

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

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

... 169 22.1 Account Generator Configuration

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

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

.169 Chapter 23 Wireless LAN

.....
.....

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

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

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

..... 173 23.1 Wireless LAN Overview

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

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

.....
.....

..173 23.1.1 IBSS .

.....

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

.....

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

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

.173 23.1.2 BSS

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

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

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

.....
.....

.173 23.1.3 ESS ..

.....

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

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

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

.174 23.2 Wireless LAN Basics

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

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

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

.....174 23.2.1 Wireless Standards .

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

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

.....

.....

.....

.....175 23.2.

2 Wireless LAN Coverage

.....

.....

.....

.....

.....

.....

.....

.....

175 23.2.3 Channel

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....175 23.2.

4 Introduction to WPA

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....176 23.2.

5 WEP Encryption

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....176 23.2.6 RTS/CTS

.....

.....

.....

.....

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....176 23.

2.7 Fragmentation Threshold

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

.177 23.3 Wireless LAN Setup ...

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

.....178 Chapter 24 Subscriber Login.

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

.. 183 Chapter 25 Report Printing Using the SP-200E ...

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

..... 185 25.1 Reports Overview

.....
.....

.....
.....

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

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

.....185 25.2 Key Combinations ...

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

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

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

.....185 25.3 Daily Account Summary ...

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

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

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

..186 Table of Contents 15 G-4100 v2 User's Guide 25.4 Monthly Account Summary ..

.....

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

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

...186 25.5 Account Report Notes

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

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

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

.....187 25.6 System Status .

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

...187 25.7 Network Statistics

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

.....189 Chapter 26 System Status....

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

..... 191 26.

1 About System Status

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

.191 26.2 View System Information ...

.....
.....

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

.....191 26.3 Account List ...

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

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

.....
.....

..194 26.4 Account Log ..

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

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

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

.....195 26.5 Current Users ..

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

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

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

.....196 26.6 DHCP Clients

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

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

.....
...197 26.7 Session List .

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

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

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

....197 26.8 LAN Devices

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

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

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

...199 26.8.1 Accessing a LAN Device

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

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

.....
....199 Chapter 27 Configuration, Firmware and Accounting Log Maintenance .

.....
.....

.....
..... 201 27.

1 Filename Conventions

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

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

...201 27.2 Configuration File Maintenance

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

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

.....201 27.2.

1 Backup Configuration Using HTTP

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

.....201 27.

2.2 Backup Configuration Using TFTP

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

.....203 27.2.3 Restore Configuration Using HTTP ..

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

..204 27.2.4 Restore Configuration Using TFTP

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

.....204 27.

3 Firmware Upgrade

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

.....
.....205 27.3.

1 Manual Firmware Upgrade Using the Web Configurator

.....
.....

..206 27.3.2 Manual Firmware Upgrade via TFTP Server

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

....207 27.3.3 Manual Boot Code Upgrade Using the Web Configurator

.....
.....

.....207 27.3.4 Scheduled Firmware Upgrade ..

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

209 Chapter 28 SSL (Secure Socket Layer) Security

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

..... 211 28.1 About SSL ...

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

.....211 28.

2 Activating SSL Security for Management Connections

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

....211 28.3 Viewing and Installing the SSL Security Certificate

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

....212 28.4 Activating SSL Security for Subscriber Logins

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

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

..217 28.5 SSL Certificate Download

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

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

.218 Chapter 29 Ping Command...

.....
.....

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

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

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

.. 221 29.1 About Ping Command

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

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

.....
.....

..221 29.2 Using Ping Command ..

.....

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

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

.....

..221 16 Table of Contents G-4100 v2 User's Guide Chapter 30 Restart ...

.....
.....

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

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

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

..... 223 30.1 Restart ..

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

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

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

.....
.....

.....223 Chapter 31 Troubleshooting

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

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

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

..... 225 31.1 Using LEDs to Diagnose Problems

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

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

.....

225 31.1.1 The Power LED ...

.....

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

.....225 31.1.2 The LAN Port LEDs ..

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

.....225 31.1.3 The WAN Port LED ..

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

..226 31.2 Web Configurator ..

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

....226 31.
3 Internet Access

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

.....
.....
.....
...227 31.4 Statement Printer

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

.....227 Appendix A Product Specifications

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

.... 229 Appendix B Setting up Your Computer's IP Address.....

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

.... 235 Appendix C IP Address Assignment Conflicts

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

.... 251 Appendix D Indoor Installation Recommendations

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

..... 255 Appendix E Wireless LANs ...

.....

.....
.....

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

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

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

.... 257 Appendix F IP Addresses and Subnetting .

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

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

..... 267 Index....

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

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

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

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

.... 275 Table of Contents 17 G-4100 v2 User's Guide 18 Table of Contents G-4100 v2 User's Guide List of Figures Figure 1 Application: Internet Access for LAN Networks

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

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

..... 34 Figure 2 Application: Internet Access in Public Areas

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

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

... 34 Figure 3 Entering ZyXEL Device IP Address in Internet Explorer

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

.. 35 Figure 4 Web Configurator: Login

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

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

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

..... 36 Figure 5 Web Configurator Navigation ..

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

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

.....
.....

... 37 Figure 6 WIZARD Submenu ..

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

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

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

... 38 Figure 7 Quick View

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

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

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

.....
.. 40 Figure 8 SYSTEM TOOLS > SYSTEM ACCOUNT

.....
.....

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

.....
.. 43 Figure 9 Side Panel

.....
.....

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

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

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

45 Figure 10 SYSTEM TOOLS > CONFIGURATION

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

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

.. 46 Figure 11 Restart

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

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

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

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

..... 47 Figure 12 LOGOUT

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

.....
.....

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

.... 47 Figure 13 iPnP Example .

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

..... 50 Figure 14 ADVANCED > SYSTEM

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

52 Figure 15 ADVANCED > WAN/LAN

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

.... 61 Figure 16 ADVANCED > SERVER .

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

..... 64 Figure 17 *ADVANCED > AUTHENTICATION* .

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

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

.....

... 67 Figure 18 *ADVANCED > AUTHENTICATION > Code* ..

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

.... 69 Figure 19 *ADVANCED > RADIUS* .

.....
.....

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

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

. 72 Figure 20 *ADVANCED > BILLING*

.....
.....

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

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

..... 76 Figure 21 *ADVANCED > ACCOUNTING*

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

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

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

.. 80 Figure 22 *Charge By Levels Example*

.....

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

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

.....
... 82 Figure 23 Account Generator Panel ..

.....
.....

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

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

..... 83 Figure 24 Web-based Account Generator Printout Preview Example ...

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

..... 84 Figure 25 Web-based PC-connected Printout Preview Example .

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

.....
.....

.... 85 Figure 26 Account List .

.....

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

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

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

... 86 Figure 27 ADVANCED > CREDIT CARD

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

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

.....
.....

.... 90 Figure 28 ADVANCED > KEYPAD .

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.... 94 Figure 29 Select Pre-Paid Billing .

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.. 95 Figure 30 Define Pre-Paid Billing Profiles ...

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 96 Figure 31 Billing Profiles 1 and 2 Examples ...

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 97 Figure 32 Select Post-Paid Billing .

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 98 Figure 33 Define Post-Paid Billing Plan

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

.... 98 Figure 34 Post-Paid Account Printout Example

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

99 Figure 35 Post-Paid Account Bill Printout Example

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

..... 99 Figure 36 ADVANCED > CUSTOMIZATION > Login Page .

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

.. 102 Figure 37 ADVANCED > CUSTOMIZATION > Login Page: Standard ...

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

.... 103 Figure 38 Login Page Example: Standard .

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

... 104 List of Figures 19 G-4100 v2 User's Guide Figure 39 ADVANCED > CUSTOMIZATION > Login Page: Redirect

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

..... 104 Figure 40 ADVANCED > CUSTOMIZATION > Login Page: Redirect > Code

.....

.....
..... 105 Figure 41 *ADVANCED > CUSTOMIZATION > Login Page: Advanced*

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

..... 106 Figure 42 *ADVANCED > CUSTOMIZATION > Login Page: Advanced > View Color Grid* .. 107 Figure 43 *Subscriber Login Screen Example: Advanced* ..

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

.... 108 Figure 44 *ADVANCED > CUSTOMIZATION > Login Page: Frame* .

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

..... 108 Figure 45 *Subscriber Login Screen Example: Frame*

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

.. 109 Figure 46 *ADVANCED > CUSTOMIZATION > Logo*

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

. 110 Figure 47 *ADVANCED > CUSTOMIZATION > Information Windows*

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

... 111 Figure 48 *ADVANCED > CUSTOMIZATION > Account Printout*

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

... 113 Figure 49 *Preview of PC-connected Printer Example*

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

116 Figure 50 *Preview of Account Generator Printer Example*

.....
.....

.....

.....

.....

.... 117 Figure 51 Preview of Post-Paid Printout Example .

.....

.....

.....

.....

.....

.....

.....

.....

. 118 Figure 52 ADVANCED > CUSTOMIZATION > Credit Card: Standard Login Page

.... 119 Figure 53 Credit Card Standard Login Page Example

.....

.....

.....

.....

.....

.....

.....

119 Figure 54 ADVANCED > CUSTOMIZATION > Credit Card: Service Selection Page 120 Figure 55 Credit Card Service Selection Page Preview .

.....

.....

.....

.....

.....

.....

.....

... 123 Figure 56 ADVANCED > CUSTOMIZATION > Credit Card: Successful Page

.....

.....

.. 124 Figure 57 Credit Card Successful Page Preview

.....

.....

.....

.....

.....

.....

.....

..... 125 Figure 58 ADVANCED > CUSTOMIZATION > Credit Card: Fail Page

.....

.....

.....

..... 126 Figure 59 Credit Card Failed Page Preview ...

.....

.....

.....

.....

.....

.....

.....

.....

..... 126 Figure 60 ADVANCED > PASS THROUGH .

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

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

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

. 128 Figure 61 ADVANCED > FILTERING

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

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

... 132 Figure 62 ADVANCED > SHARE ..

.....
.....

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

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

. 136 Figure 63 ADVANCED > PORTAL PAGE

.....
.....

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

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

..... 139 Figure 64 ADVANCED > ADVERTISEMENT

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

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

.... 140 Figure 65 ADVANCED > WALLED GARDEN

.....

.....
.....

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

.....
... 141 Figure 66 Walled Garden Login Example ..

.....
.....

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

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

..... 142 Figure 67 ADVANCED > DDNS ..

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

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

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

..... 144 Figure 68 ADVANCED > LAN DEVICES ..

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

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

..... 148 Figure 69 LAN Device Remote Management Example 1 .

.....
.....

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

..... 149 Figure 70 ADVANCED > LAN DEVICES: Example 1

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

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

.. 149 Figure 71 LAN Device Remote Management Example 2

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

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

... 150 Figure 72 ADVANCED > LAN DEVICES: Example 2

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

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

150 Figure 73 ADVANCED > SYSLOG

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

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

.... 154 Figure 74 ADVANCED > SYSLOG > Log Settings .

.....
.....

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

.....
.....

156 Figure 75 ADVANCED > SESSION TRACE

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

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

..... 161 Figure 76 Session Trace Information Example

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

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

.. 162 Figure 77 ADVANCED > BANDWIDTH

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

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

.....
.....

.... 166 Figure 78 *ADVANCED > SECURE REMOTE .*

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

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

..... 167 Figure 79 *ADVANCED > ACCOUNT GENERATOR ..*

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

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

..... 170 Figure 80 *IBSS (Ad-hoc) Wireless LAN ...*

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

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

.....
.....

173 Figure 81 *Basic Service*

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

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

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

..... 174 20 *List of Figures G-4100 v2 User's Guide Figure 82 Extended Service Set*

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

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

..... 174 Figure 83 RTS/CTS .



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....

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

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

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

.... 177 Figure 84 ADVANCED > WIRELESS .

.....
.....

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

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

..... 179 Figure 85 Subscriber Login Screen

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

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

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

. 183 Figure 86 Subscriber Login: Time Window

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

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

.... 183 Figure 87 Daily Account Example .

.....
.....

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

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

. 186 Figure 88 Monthly Account Example

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

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

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

... 187 Figure 89 System Status Example

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

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

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

..... 188 Figure 90 Network Statistics Example .

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

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

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

190 Figure 91 SYSTEM STATUS > SYSTEM

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

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

.... 191 Figure 92 SYSTEM STATUS > ACCOUNT LOG

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

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

.....
.....

..... 195 Figure 93 SYSTEM STATUS > CURRENT USER ...

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

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

..... 196 Figure 94 SYSTEM STATUS > DHCP .

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

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

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

..... 197 Figure 95 SYSTEM STATUS > Session List .

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

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

..... 198 Figure 96 SYSTEM STATUS > LAN DEVICES

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

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

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

.. 199 Figure 97 SYSTEM TOOLS > CONFIGURATION: Backup Using HTTP ...

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

.... 202 Figure 98 Configuration Backup: File Download .

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

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

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

.... 202 Figure 99 Configuration Backup: Save As .

.....

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

... 203 Figure 100 SYSTEM TOOLS > CONFIGURATION: Backup Using TFTP

.....
.....

..... 203 Figure 101 Configuration Backup: Using TFTP Successful .

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

.....
.....

.. 204 Figure 102 SYSTEM TOOLS > CONFIGURATION: Restore Using HTTP ...

.....

.....
.....

.. 204 Figure 103 SYSTEM TOOLS > CONFIGURATION: Restore Using TFTP ...

.....
.....

..... 205 Figure 104 SYSTEM TOOLS > FIRMWARE > Manual Firmware Upgrade: Using the Web Configurator ...

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

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

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

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

.... 206 Figure 105 System Restart

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

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

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

. 206 Figure 106 SYSTEM TOOLS > FIRMWARE > Manual Firmware Upgrade: via TFTP Server 207 Figure 107 SYSTEM TOOLS > FIRMWARE >

Manual Firmware Upgrade: Boot Code Upgrade Using the Web Configurator

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

..... 208 Figure 108 System Restart .

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

208 Figure 109 SYSTEM TOOLS > FIRMWARE > Scheduled Firmware Upgrade

.....

.... 209 Figure 110 Synchronization Check File Example

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

..... 210 Figure 111 ADVANCED > SERVER: Enable SSL (HTTPS) Security ..

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

.. 212 Figure 112 Installing the SSL Security Certificate: First Security Alert ...

.....
.....

.... 213 Figure 113 Installing the SSL Security Certificate: Second Security Alert .

.....
.....

. 213 Figure 114 Installing the SSL Security Certificate: View Certificate

.....
.....

.. 214 Figure 115 Installing the SSL Security Certificate: Certificate Import Wizard ...

.....

..... 214 Figure 116 Certificate Import Wizard: Location .

.....

.....
.....

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

.....
.....

. 215 Figure 117 Certificate Import Wizard: Finish

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

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

..... 215 Figure 118 Root Certificate Store ...

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

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

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

..... 216 Figure 119 Certificate Import Wizard

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

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

.....
.....

... 216 Figure 120 Certificate Details ..

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

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

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

.. 216 Figure 121 Security Alert: Trusted

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

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

.....
.....
..... 217 Figure 122 ADVANCED > AUTHENTICATION: Activate SSL Login .
.....

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

... 218 List of Figures 21 G-4100 v2 User's Guide Figure 123 SYSTEM TOOLS > SSL CERTIFICATE

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

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

.. 218 Figure 124 SYSTEM TOOLS > PING COMMAND

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

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

... 221 Figure 125 SYSTEM TOOLS > RESTART

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

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

..... 223 Figure 126 WAN Port Cable Pin Assignments

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

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

..... 232 Figure 127 LAN Port Cable Pin Assignments .

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

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

... 233 *Figure 128 Windows 95/98/Me: Network: Configuration*

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

. 236 *Figure 129 Windows 95/98/Me: TCP/IP Properties: IP Address*

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

..... 237 *Figure 130 Windows 95/98/Me: TCP/IP Properties: DNS Configuration ...*

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

..... 238 *Figure 131 Windows XP: Start Menu*

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

.. 239 *Figure 132 Windows XP: Control Panel ...*

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

..... 239 *Figure 133 Windows XP: Control Panel: Network Connections: Properties*

.....
.....

..... 240 *Figure 134 Windows XP: Local Area Connection Properties ..*

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

.... 240 *Figure 135 Windows XP: Internet Protocol (TCP/IP) Properties .*

.....

.....
.....
.....
.....
.....
..... 241 Figure 136 Windows XP: Advanced TCP/IP Properties

.....
.....
.....
.....
.....
.... 242 Figure 137 Windows XP: Internet Protocol (TCP/IP) Properties .

.....
.....
.....
.....
.....
243 Figure 138 Macintosh OS 8/9: Apple Menu

.....
.....
.....
.....
.....
.. 244 Figure 139 Macintosh OS 8/9: TCP/IP ...

.....
.....
.....
.....
.....
.. 244 Figure 140 Macintosh OS X: Apple Menu

.....
.....
.....
.....
.....
.. 245 Figure 141 Macintosh OS X: Network ...

.....
.....
.....
.....
.....
.. 245 Figure 141 Macintosh OS X: Network ...

.....
.....
.....
.....
.....
.. 245 Figure 141 Macintosh OS X: Network ...

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

..... 246 Figure 142 Red Hat 9.0: KDE: Network Configuration: Devices .

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

.....
.....

.... 247 Figure 143 Red Hat 9.0: KDE: Ethernet Device: General

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

..... 247 Figure 144 Red Hat 9.0: KDE: Network Configuration: DNS

.....
.....

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

..... 248 Figure 145 Red Hat 9.0: KDE: Network Configuration: Activate Figure 147 Red Hat 9.0: Static IP Address Setting in ifconfig-eth0 Figure 148 Red Hat 9.0: DNS Settings in resolv.conf .

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

.. 248

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

..... 249 Figure 146 Red Hat 9.0: Dynamic IP Address Setting in ifconfig-eth0 ...

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

..... 249 ...

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

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

. 249 Figure 149 Red Hat 9.0: Restart Ethernet Card

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

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

..... 250 Figure 150 Red Hat 9.0: Checking TCP/IP Properties ...

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

. 250 Figure 151 IP Address Conflicts: Case A

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

.. 251 Figure 152 IP Address Conflicts: Case B ...

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

.. 252 Figure 153 IP Address Conflicts: Case C

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

... 252 Figure 154 IP Address Conflicts: Case D ..

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

.... 253 Figure 155 Peer-to-Peer Communication in an Ad-hoc Network

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

.... 257 Figure 156 Basic Service Set .

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

... 258 *Figure 157 Infrastructure WLAN* ..

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.. 259 *Figure 158 RTS/CTS* ...

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

... 260 22 *List of Figures G-4100 v2 User's Guide List of Tables Table 1 Web Configurator Screens Overview*

.....

.....

.....

.....

.....

.....

.....

. 39 *Table 2 Quick View*

.....

.....

.....

.....

.....

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

40 Table 3 SYSTEM TOOLS > SYSTEM ACCOUNT

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

. 43 Table 4 SYSTEM TOOLS > CONFIGURATION

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

..... 46 Table 5 ADVANCED > SYSTEM

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

.... 53 Table 6 ADVANCED > LAN/WAN

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

62 Table 7 ADVANCED > SERVER

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

.....
.....

..... 65 Table 8 ADVANCED > AUTHENTICATION ..

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

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

..... 68 Table 9 ADVANCED > RADIUS .

.....
.....

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

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

..... 73 Table 10 ADVANCED > BILLING ..

.....
.....

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

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

..... 77 Table 11 ADVANCED > ACCOUNTING

.....
.....

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

.....
.....

.. 81 Table 12 Charge By Levels Example

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

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

.....
... 82 Table 13 Account List ..

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

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

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

..... 86 Table 14 ADVANCED > CREDIT CARD ..

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

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

.....
.... 90 Table 15 ADVANCED > KEYPAD .

.....
.....

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

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

.....
94 Table 16 ADVANCED > CUSTOMIZATION > Login Page: Standard

.....
.....

.....
... 103 Table 17 ADVANCED > CUSTOMIZATION > Login Page: Redirect ..

.....
.....

.....
.....

.. 104 Table 18 ADVANCED > CUSTOMIZATION > Login Page: Advanced ...

.....
.....

.....
... 106 Table 19 ADVANCED > CUSTOMIZATION > Login Page: Frame ..

.....

.....

.....

.....

..... 108 Table 20 ADVANCED > CUSTOMIZATION > Logo

.....

.....

.....

.....

.....

.....

.....

..... 110 Table 21 ADVANCED > CUSTOMIZATION > Information Windows

.....

.....

.....

..... 111 Table 22 ADVANCED > CUSTOMIZATION > Account Printout ..

.....

.....

.....

.....

..... 114 Table 23 ADVANCED > CUSTOMIZATION > Credit Card: Standard Login Page .

.....

.....

.. 119 Table 24 ADVANCED > CUSTOMIZATION > Credit Card: Service Selection Page

.. 121 Table 25 ADVANCED > CUSTOMIZATION > Credit Card: Successful Page

.....

.....

.. 124 Table 26 ADVANCED > CUSTOMIZATION > Credit Card: Fail Page

.....

.....

.....

.... 126 Table 27 ADVANCED > PASS THROUGH

.....

.....

.....

.....

.....

.....

.....

.....

..... 128 Table 28 ADVANCED > FILTERING

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 132 Table 29 ADVANCED > SHARE ..

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

..... 136 Table 30 ADVANCED > PORTAL PAGE

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

.. 140 Table 31 ADVANCED > ADVERTISEMENT ...

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

.. 141 Table 32 ADVANCED > WALLED GARDEN

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

.. 142 Table 33 ADVANCED > DDNS

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

.....
.....
.....
.....
.....
. 163 List of Tables 23 G-4100 v2 User's Guide Table 39 ADVANCED > BANDWIDTH
.....
.....
.....
.....

..... 166 Table 40 ADVANCED > SECURE REMOTE .

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

..... 167 Table 41 ADVANCED > ACCOUNT GENERATOR ..

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

..... 170 Table 42 IEEE 802.11b Data Rates and Modulation ..

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

..... 175 Table 43 IEEE 802.11g Data Rates and Modulation ...

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

..... 175 Table 44 Wireless LAN Coverage

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

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

. 175 Table 45 *ADVANCED > WIRELESS*

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

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

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

... 180 Table 46 *Report Printing Key Combinations*

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

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

... 185 Table 47 *System Status*

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

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

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

.....
.....

188 Table 48 *Network Statistics*

.....

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

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

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

. 190 Table 49 *SYSTEM STATUS > SYSTEM*

.....

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

..... 193 Table 50 SYSTEM STATUS > ACCOUNT LOG

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

. 195 Table 51 SYSTEM STATUS > CURRENT USER

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

... 196 Table 52 SYSTEM STATUS > DHCP ..

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

.... 197 Table 53 SYSTEM STATUS > Session List

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

. 198 Table 54 SYSTEM STATUS > LAN DEVICES

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

... 199 Table 55 SYSTEM TOOLS > SSL CERTIFICATE

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

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

.... 219 Table 56 SYSTEM TOOLS > PING COMMANDT

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

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

..... 221 Table 57 Troubleshooting Power LED

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

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

.....
.....

. 225 Table 58 Troubleshooting LAN LEDs

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

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

..... 225 Table 59 Troubleshooting WAN LEDs ...

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

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

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

..... 226 Table 60 Troubleshooting the Web Configurator ...

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

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

. 226 Table 61 Troubleshooting the Internet Browser Display

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

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

.... 227 Table 62 Troubleshooting Internet Access .



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.....

.....

.....

.....

.....

.....

.....

..... 227 *Table 63 Troubleshooting a Statement Printer ...*

.....

.....

.....

.....

.....

.....

..... 227 *Table 64 Firmware Specifications .*

.....

.....

.....

.....

.....

.....

.....

.....

..... 229 *Table 65 Wireless Specifications*

.....

.....

.....

.....

.....

.....

.....

.....

..... 230 *Table 66 Hardware Specifications .*

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 230 Table 67 Certifications

.....
.....

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

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

.....
.....

.... 231 Table 68 Network Cable Types .

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

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

.....
.....

.... 232 Table 69 WAN Port Cable Pin Assignments .

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

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

232 Table 70 WAN Port Cable Pin Assignments

.....
.....

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

. 232 Table 71 LAN Port Cable Pin Assignments

.....
.....

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

.....
.....

.....
... 233 Table 72 LAN Port Cable Pin Assignments

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

..... 233 Table 73 IEEE 802.11g

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

... 261 Table 74 Comparison of EAP Authentication Types .

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

... 265 Table 75 Wireless Security Relational Matrix ..

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

..... 265 Table 76 Classes of IP Addresses ...

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

.. 268 Table 77 Allowed IP Address Range By Class

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

.....
.....
.....
.....
..... 268 Table 78 "Natural" Masks .

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

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

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

..... 269 Table 79 Alternative Subnet Mask Notation ...

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

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

.....
.....
..... 269 Table 80 Two Subnets Example ..

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

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

.....
.....
..... 270 Table 81 Subnet 1 ...

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

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

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

..... 270 24 List of Tables G-4100 v2 User's Guide Table 82 Subnet 2 ...

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

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

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

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

..... 271 Table 83 Subnet 1 ...

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

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

.. 271 Table 84 Subnet 2 ...

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

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

..... 272 Table 85 Subnet 3 ...

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

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

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

..... 272 Table 86 Subnet 4 ...

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

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

.....
.....

.. 272 Table 87 Eight Subnets ...

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

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.....
.....

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

..... 273 Table 88 Class C Subnet Planning .

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

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

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

.... 273 Table 89 Class B Subnet Planning

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

.....
.....
.....
.....
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.... 274 List of Tables 25 G-4100 v2 User's Guide 26 List of Tables G-4100 v2 User's Guide Preface Congratulations on your purchase of the ZyXEL Device.
Note: Register your product online to receive e-mail notices of firmware upgrades and information at www.zyxel.com for global products, or at www.us.zyxel.com for North American products. Your ZyXEL Device is easy to install and configure. About This User's Guide This manual is designed to guide you through the configuration of your ZyXEL Device for its various applications. The web configurator parts of this guide contain background information on features configurable by web configurator. The SMT parts of this guide contain background information solely on features not configurable by web configurator.

Note: Use the web configurator, System Management Terminal (SMT) or command interpreter interface to configure your ZyXEL Device. Not all features can be configured through all interfaces. Related Documentation · Supporting Disk Refer to the included CD for support documents. · Quick Start Guide The Quick Start Guide is designed to help you get up and running right away. It contains a detailed easy-to-follow connection diagram, default settings, handy checklists and information on setting up your network and configuring for Internet access. · Web Configurator Online Help Embedded web help for descriptions of individual screens and supplementary information. · ZyXEL Glossary and Web Site Please refer to www.zyxel.com for an online glossary of networking terms and additional support documentation. User Guide Feedback Help us help you.

E-mail all User Guide-related comments, questions or suggestions for improvement to techwriters@zyxel.com.tw or send regular mail to The Technical Writing Team, ZyXEL Communications Corp., 6 Innovation Road II, Science-Based Industrial Park, Hsinchu, 300, Taiwan. Thank you! Preface 27 G-4100 v2 User's Guide Syntax Conventions · "Enter" means for you to type one or more characters.

"Select" or "Choose" means for you to use one predefined choices. · Mouse action sequences are denoted using a comma. For example, "In Windows, click Start, Settings and then Control Panel" means first click the Start button, then point your mouse pointer to Settings and then click Control Panel. · "e.g.," is a shorthand for "for instance", and "i.e.," means "that is" or "in other words". Graphics Icons Key ZyXEL Device Computer Notebook computer Server Firewall Wireless Signal Switch Router 28 Preface G-4100 v2 User's Guide CHAPTER 1 Getting to Know Your ZyXEL Device This chapter introduces the features and applications of the ZyXEL Device. 1.1 Introducing the ZyXEL Device The ZyXEL Device Hot Spot Gateway combines an IEEE 802.11g wireless access point, router, 4-port switch and service gateway in one box. If you have an "exclusive printer", you can connect it directly to the ZyXEL Device, allowing you to easily print subscriber statements. The ZyXEL Device is ideal for offices, coffee shops, libraries, hotels and airport terminals catering to subscribers that seek Internet access. You should have an Internet account already set up and have been given usernames, passwords etc.

required for Internet access. 1.2 Features Your ZyXEL Device provides the following features to accommodate subscribers with a variety of network configurations with little or no technical support. iPnP The IP Plug and Play feature allows a computer to access the Internet or the ZyXEL Device without changing the network settings (such as IP address and subnet mask) of the computer, even when the IP addresses of the computer and the ZyXEL Device are not in the same subnet. WEP Data Encryption WEP (Wired Equivalent Privacy) encrypts data frames before transmitting over the wireless network to help keep network communications private. The ZyXEL Device uses 64-bit or 128-bit WEP encryption. WPA Data Encryption Wi-Fi Protected Access (WPA) encrypts data frames before transmitting over the wireless network to help keep network communications private. WPA provides user authentication and better data encryption than WEP. Chapter 1 Getting to Know Your ZyXEL Device 29 G-4100 v2 User's Guide VPN (Virtual Private Network) Pass Through The ZyXEL Device allows subscribers to create VPN networks (which use data encryption and the Internet to provide secure communications) that go through the ZyXEL Device. VLAN The ZyXEL Device uses port-based VLAN (Virtual Local Area Network) on the LAN Ethernet ports to block direct communications between subscribers.

This is called layer 2 isolation. SSL Secure Login With Secure Socket Layer (SSL) activated upon login, data exchanged between the ZyXEL Device and client computers are encrypted and protected. PPTP Support Point-to-Point Tunneling Protocol (PPTP) is a network protocol that enables secure transfer of data from a remote client to a private server, creating a Virtual Private Network (VPN) using a TCP/IP-based network. PPTP supports on-demand, multi-protocol and virtual private networking over public networks, such as the Internet. Use PPTP to connect to a broadband modem to achieve access to high-speed data networks via a familiar "dial-up networking" user interface.

PPPoE Support (RFC2516) PPPoE (Point-to-Point Protocol over Ethernet) emulates a dial-up connection. It allows your ISP to use their existing network configuration with newer broadband technologies such as ADSL. The PPPoE driver on the ZyXEL Device is transparent to the computers on the LAN, which see only Ethernet and are not aware of PPPoE thus saving you from having to manage PPPoE clients on individual computers. Network Address Translation (NAT) NAT (Network Address Translation - NAT, RFC 1631) allows the translations of multiple IP addresses used within one network to different IP addresses known within another network.



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DHCP Support DHCP (Dynamic Host Configuration Protocol) allows the individual computers (DHCP clients) to obtain TCP/IP configuration at start-up from a centralized DHCP server.

The ZyXEL Device has built-in DHCP server capability. It can assign IP addresses, an IP default gateway and DNS servers to DHCP clients. The ZyXEL Device can also act as a surrogate DHCP server (DHCP Relay) where it relays IP address assignment from the actual real DHCP server to the DHCP clients. 30 Chapter 1 Getting to Know Your ZyXEL Device G-4100 v2 User's Guide E-mail Forwarding The ZyXEL Device is able to forward and retrieve e-mail messages when the subscriber's default email server is down or behind a firewall. DNS Proxy With DNS proxy, the ZyXEL Device provides DNS redirection when a subscriber's configured DNS server is behind a firewall or located in a private Intranet. Local Subscriber Database The ZyXEL Device allows you to maintain a subscriber database on the ZyXEL Device without setting up an external RADIUS server. Subscriber accounting and authentication are done using the local subscriber database. RADIUS The ZyXEL Device can use an external RADIUS (Remote Authentication Dial In User Service defined in RFC2138 and 2139) server for subscriber authentication and accounting. Accounting The ZyXEL Device has a built-in accounting feature for keeping track of subscriber Internet usage time. iPass The iPass company provides connectivity services for mobile Internet users.

The ZyXEL Device can authenticate iPass clients through an external RADIUS server that is Wi-Fi based Wireless Internet Service Provider roaming (WISPr) compliant. Local Content and Advertising Links Once connected to the network, the ZyXEL Device directs the subscriber to a specified web site and display advertisement links. This can be a source of extra online advertising revenues and increased business exposure. Access Control (Walled Garden) With the walled garden feature, subscribers are able to access predetermined web sites without logging in. The ZyXEL Device blocks full Internet access until the subscribers log in. Subscriber Login Page Customization You can customize the subscriber login page according to your business needs. The advanced settings allow you to include welcome messages, company logo and basic formatting. Chapter 1 Getting to Know Your ZyXEL Device 31 G-4100 v2 User's Guide Web Configurator Management The ZyXEL Device comes with an embedded web-based configurator. It offers advanced management features and allows you to manage the ZyXEL Device remotely using Internet Explorer. SNMP SNMP (Simple Network Management Protocol) is a protocol used for exchanging management information between network devices.

SNMP is a member of the TCP/IP protocol suite. Your ZyXEL Device supports SNMP agent functionality, which allows a manager station to manage and monitor the ZyXEL Device through the network. The ZyXEL Device supports SNMP version 2c (SNMPv2c). Upgrade Firmware The firmware of the ZyXEL Device can be upgraded via the web configurator. Syslog The ZyXEL Device's syslog function allows network administrators to monitor the usage status of subscribers from a remote site.

You can set up a syslog server to receive the log of information on current logged-in subscribers that the ZyXEL Device sends periodically. IEEE 802.11g Wireless LAN Standard The ZyXEL Device complies with the IEEE 802.11g wireless standard, which supports data speeds of up to 54 Mbps. IEEE 802.11b Wireless LAN Standard The ZyXEL Device is also fully compatible with the 802.11b standard. This means an IEEE 802.11b radio card can interface directly with the ZyXEL Device (and vice versa) at 11 Mbps or lower depending on range. Antennas The ZyXEL Device is equipped with two reverse SMA connectors and two detachable omnidirectional 2dBi antennas to provide a clear radio signal between the wireless stations and the access points. 4-Port Switch A combination of switch and Internet gateway makes your ZyXEL Device a cost-effective and viable network solution. You can connect up to four computers to the LAN ports on the ZyXEL Device without the cost of a hub. To connect more than four Ethernet devices, attach a hub or switch. 32 Chapter 1 Getting to Know Your ZyXEL Device G-4100 v2 User's Guide 10/100M Auto-negotiating Ethernet/Fast Ethernet Interface This auto-negotiating feature allows the ZyXEL Device to detect the speed of incoming transmissions and adjust appropriately without manual intervention. It allows data transfer of either 10 Mbps or 100 Mbps in either half-duplex or full-duplex mode depending on your Ethernet network.

Reset Button Use the reset button to restore the ZyXEL Device back to its factory defaults. Statement Printer A statement printer allows you to generate subscriber accounts on the ZyXEL Device and print out the account information on-site without using a computer. The statement printer is also known as an "account generator", "three-button printer" or "exclusive printer". Ease of Installation Your ZyXEL Device is designed for quick, intuitive and easy installation. It can be mounted on a desktop or a wall. 1.3 Applications The following sections describe network application examples in which the ZyXEL Device is used. 1 1.3.1 Internet Access for LAN Networks With a broadband modem or router (A), the ZyXEL Device allows the attached computers to enjoy high speed Internet access.

1. The total number of concurrent WLAN users allowed is 24. The total number of concurrent users (WLAN and Wired) allowed is 100 Chapter 1 Getting to Know Your ZyXEL Device 33 G-4100 v2 User's Guide Figure 1 Application: Internet Access for LAN Networks 1.3.2 Internet Access in Public Areas In public areas, such as a hotel, the ZyXEL Device provides high speed Internet access to subscribers.

Account billing and authentication can be done using a statement printer (B) and the built-in billing function and local subscriber database. The ZyXEL Device functions as an access point (AP) to bridge the wired and the wireless network allowing wireless stations to access the Internet through the ZyXEL Device. Figure 2 Application: Internet Access in Public Areas 34 Chapter 1 Getting to Know Your ZyXEL Device G-4100 v2 User's Guide CHAPTER 2 The Web Configurator This chapter introduces how to access the web configurator to perform general system configuration. 2.1 Introducing the Web Configurator The web configurator is best viewed with Internet Explorer (version 4.

0 or above) or Netscape Navigator (version 6.0 or above). Your browser must have JavaScript support enabled. 2.2 Accessing the Web Configurator Follow the steps below to access the web configurator. Note: The ZyXEL Device allows only one web configurator session at a time. 1 Make sure your ZyXEL Device is properly connected (refer to instructions in the Quick Start Guide on hardware installation and connections).



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2 Launch your web browser and type the WAN or LAN IP address of the ZyXEL Device as the web address (it is recommended that you connect your computer to the LAN and use the LAN IP address for initial configuration). 192.168.

1.1 is the default IP address for the LAN port. If you are using a different port number (between 8000 and 8099) for the web server, you must also append the port number to the LAN IP address separated with a colon ":", for example, http://192.168.1.1:8080. Figure 3 Entering ZyXEL Device IP Address in Internet Explorer 3 A login screen displays. Type "admin" (default) as the user name and "1234" (default) as the password and click Login. Note: The user name and password are case sensitive. Chapter 2 The Web Configurator 35 G-4100 v2 User's Guide Figure 4 Web Configurator: Login 4 You should see the first screen of the Wizard Setup.

Refer to the Quick Start Guide for more information on configuring the Wizard Setup screens. Note: The ZyXEL Device automatically logs you out if there is no activity for longer than five minutes after you log in. If this happens, simply log back in again. You can change the time period in the ADVANCED SERVER screen's Administrator Inactivity Timer field. 2.

3 Wizard Setup Screens The Wizard Setup screens display when you first access the ZyXEL Device. Refer to the Quick Start Guide for information on how to configure the Wizard Setup screens. 2.4 Navigating the Web Configurator After you finish the Wizard Setup screens, you first see the Quick View screen after login. Note: Click the Help icon (located in the top right corner of most screens) to view online help.

36 Chapter 2 The Web Configurator G-4100 v2 User's Guide Figure 5 Web Configurator Navigation Click a navigation panel link to open a submenu of links to individual screens. For example, click WIZARD to display the following submenu. Chapter 2 The Web Configurator 37 G-4100 v2 User's Guide Figure 6 WIZARD Submenu 2.5 Screens Overview 38 Chapter 2 The Web Configurator G-4100 v2 User's Guide The following table lists the various web configurator screens. Table 1 Web Configurator Screens Overview WIZARD INTERNET WIRELESS E-MAIL AUTHENTICATION BILLING PRINTER ACCOUNTING SYSTEM ADVANCED SYSTEM WAN/LAN SERVER AUTHENTICATION RADIUS BILLING ACCOUNTING CREDIT CARD KEYPAD CUSTOMIZATION Login Page Logo Information Windows Account Printout Credit Card PASS THROUGH FILTERING SHARE PORTAL PAGE ADVERTISEMENT WALLED GARDEN DDNS LAN DEVICES SYSLOG Syslog Log Settings SESSION TRACE BANDWIDTH SECURE REMOTE ACCOUNT GENERATOR WIRELESS SYSTEM STATUS SYSTEM ACCOUNT LIST ACCOUNT LOG CURRENT USER DHCP CLIENT SESSION LIST LAN DEVICES SYSTEM TOOLS CONFIGURATION FIRMWARE Manual Firmware Upgrade Scheduled Firmware Upgrade SYSTEM ACCOUNT SSL CERTIFICATE PING COMMAND RESTART 2.6 Quick View Screen Click QUICK VIEW to display the following screen. This screen displays key system status information. Chapter 2 The Web Configurator 39 G-4100 v2 User's Guide Figure 7 Quick View The following table describes the labels in this screen. Table 2 Quick View LABEL System Refresh System/Host Name Location Name Domain Name Click Refresh to update this screen. This field displays the description name of the ZyXEL Device for identification purposes.

This field displays the device's geographical location. This field displays the domain name of the ZyXEL Device. DESCRIPTION Firmware Version This field displays the version of the firmware on the ZyXEL Device. 40 Chapter 2 The Web Configurator G-4100 v2 User's Guide Table 2 Quick View (continued) LABEL System Time System Up Time WAN MAC Address LAN MAC Address Network WAN Status WAN Type WAN IP Address WAN Subnet Mask This field displays the status of the ZyXEL Device's connection to the Internet (Established or Not Established). This field displays the DHCP mode of the WAN port. It displays DHCP Client, Static IP Setting, PPPoE, or PPTP. This field displays the IP address and the subnet mask of the WAN port on the ZyXEL Device. DESCRIPTION This field displays the ZyXEL Device's current time. This field displays the how long the ZyXEL Device has been operating since it was last started. This field displays the MAC address of the ZyXEL Device on the WAN.

This field displays the MAC address of the ZyXEL Device on the LAN. LAN IP Address This field displays the IP address and the subnet mask of the LAN port on the LAN Subnet Mask ZyXEL Device. Default Gateway DNS Wireless Wireless Service ESSID Encryption This field displays the status of the ZyXEL Device's wireless LAN. This field displays the ZyXEL Device's Extended Service Set IDentity. This field displays the type of data encryption that the ZyXEL Device is using.

WEP displays if the ZyXEL Device is using WEP data encryption. WPA displays if ZyXEL Device is using WPA data encryption. Disable displays if the ZyXEL Device is not using data encryption. This field displays traffic statistics for the ZyXEL Device's WAN connection. This field displays traffic statistics for the ZyXEL Device's LAN connection.

This field displays traffic statistics for the ZyXEL Device's wireless LAN connection. This field displays the IP address of the default gateway of the WAN port on the ZyXEL Device. This field displays the IP address of the DNS server that the ZyXEL Device is using. Wireless Channel This field displays the channel that the ZyXEL Device is using. Traffic WAN LAN Wireless 2.7 Login Accounts There are four system accounts that you can use to log in to the ZyXEL Device: administrator, account manager, supervisor and super subscriber. The administrator account allows you full access to all system configurations. The default administrator user name is "admin" and the default password is "1234". Chapter 2 The Web Configurator 41 G-4100 v2 User's Guide The account manager account is used for proprietary subscriber account management only. No system configuration is allowed.

This account is useful for front desk personnel (such as in a hotel) for setting up subscriber accounts without tampering with the system configuration. The account manager default user name and password are "account". With the supervisor account, you can only view the system status and change the supervisor account password. This account is useful for allowing a manager to view the device's status and lists of accounts and logged in subscribers without changing the system configuration. The default supervisor account user name and password is "supervisor". Use the super subscriber account to test the Internet connection between the ZyXEL Device and the ISP. The ZyXEL Device does not impose time limitations or charges on this account. Thus, anyone who logs in with this account is able to gain Internet access for free. The default super subscriber user name and password are "super".



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Note: You can only log in using the super subscriber account in the subscriber login screen.

2.7.1 Changing Login Account Usernames and Passwords *Note: It is recommended you change the account passwords. Click SYSTEM TOOLS > SYSTEM ACCOUNT to open the following screen. 42 Chapter 2 The Web Configurator G-4100 v2 User's Guide Figure 8 SYSTEM TOOLS > SYSTEM ACCOUNT*

Note: The account user names and passwords are case sensitive.

Table 3 SYSTEM TOOLS > SYSTEM ACCOUNT LABEL Administrator Account Username Password Confirm Web-based Accounting Manager Username Password Confirm Supervisor Account Username Password Confirm Enter the user name for the supervisor account. The default is supervisor. Enter a new supervisor password. Enter the new supervisor password again for confirmation. Enter the user name for the account manager account.

The default is account. Enter a new account manager password. Enter the new account manager password again for confirmation. Enter the user name for the administrative account. The default is admin. Enter a new administrative account password. Enter the new administrator password again for confirmation. DESCRIPTION Chapter 2 The Web Configurator 43 G-4100 v2 User's Guide Table 3 SYSTEM TOOLS > SYSTEM ACCOUNT (continued) LABEL Super Subscriber Account Username Password Confirm Apply DESCRIPTION *Note: You can only log in using the super subscriber account in the subscriber login screen. Enter the user name for the super subscriber account. The default is super.*

Enter a new super subscriber account password. Enter the new super subscriber account password again for confirmation. Click Apply to save the changes back to the ZyXEL Device. 2.8 Methods of Restoring Factory-Defaults There are two methods you can use to erase the current configuration and restore factory defaults. 2.8.1 Using the Reset Button to Restore Factory-Defaults The reset button is located on the side panel. Use a pointed object to press this button in once to reset the ZyXEL Device back to the factory defaults. *Note: All of your custom configuration including the local subscriber database will be erased.*

44 Chapter 2 The Web Configurator G-4100 v2 User's Guide Figure 9 Side Panel 2.8.2 Using the Web Configurator to Restore Factory-Defaults To reset the ZyXEL Device back to the factory defaults, click SYSTEM TOOLS > CONFIGURATION to display the screen as shown next. Chapter 2 The Web Configurator 45 G-4100 v2 User's Guide Figure 10 SYSTEM TOOLS > CONFIGURATION The following table describes the labels in this screen. Table 4 SYSTEM TOOLS > CONFIGURATION LABEL Reset the system back to factory defaults Keep subscriber profile Apply Select this option to reset the system configuration back to the factory default but retain subscriber account information.

All other custom configuration is erased. Click Apply to reset system configuration back to the factory defaults. DESCRIPTION 2.9 Restarting the ZyXEL Device You must restart the ZyXEL Device every time you change the system IP address or upload a firmware or configuration file. Click SYSTEM TOOLS > RESTART.

Then click Apply. 46 Chapter 2 The Web Configurator G-4100 v2 User's Guide Figure 11 Restart *Note: When the ZyXEL Device restarts, all connections will be terminated. Anyone using a system account will need to log in again. The subscribers may also need to log in again.* 2.10 Logging Out of the Web Configurator Click LOGOUT to exit from the web configurator. Figure 12 LOGOUT Chapter 2 The Web Configurator 47 G-4100 v2 User's Guide 48 Chapter 2 The Web Configurator G-4100 v2 User's Guide CHAPTER 3 General System Setup This chapter describes how to configure the SYSTEM advanced setup screens. 3.1 General System Setup Use this screen to configure administrative and system-related general settings for your ZyXEL Device. 3.

2 System Name System name is for identification purposes. However, because some ISPs check this name you should enter your computer's "Computer Name". In Windows 95/98 click Start, Settings, Control Panel, Network. Click the Identification tab, note the entry for the Computer Name field and enter it as the System Name. In Windows 2000, click Start, Settings and Control Panel and then double-click System. Click the Network Identification tab and then the Properties button. Note the entry for the Computer name field and enter it as the System Name. In Windows XP, click Start, My Computer, View system information and then click the Computer Name tab. Note the entry in the Full computer name field and enter it as the ZyXEL Device System Name. 3.

3 Domain Name The Domain Name entry is what is propagated to the DHCP clients on the LAN. If you leave this blank, the domain name obtained by a DHCP server is used. While you must enter the host name (System Name), the domain name can be assigned from the ZyXEL Device via DHCP. 3.4 iPnP ZyXEL Implementation Traditionally, you must set the IP addresses and the subnet masks of a computer and the ZyXEL Device to be in the same subnet to allow the computer to access the Internet (through the ZyXEL Device).

In cases where your computer is required to use a static IP address in another network, you may need to manually configure the network settings of the computer every time you want to access the Internet via the ZyXEL Device. Chapter 3 General System Setup 49 G-4100 v2 User's Guide With the iPnP feature and NAT enabled, the ZyXEL Device allows a computer to access the Internet without changing the network settings (such as IP address and subnet mask) of the computer, when the IP addresses of the computer and the ZyXEL Device are not in the same subnet. Modified Whether a computer is set to use a dynamic or static (fixed) IP address, you can simply connect the computer to the ZyXEL Device and access the Internet. The following figure depicts a scenario where a computer is set to use a static private IP address in the corporate environment. In a residential house where a ZyXEL Device is installed, you can still use the computer to access the Internet without changing the network settings, even when the IP addresses of the computer and the ZyXEL Device are not in the same subnet.

Figure 13 iPnP Example The iPnP feature does not apply to a computer using either a dynamic IP address or a static IP address that is in the same subnet as the ZyXEL Device's IP address. Added *Note: You must enable NAT to use the iPnP feature.* 3.4.1 How iPnP Works Address Resolution Protocol (ARP) is a protocol for mapping an Internet Protocol address (IP address) to a physical machine address, also known as a Media Access Control or MAC address, on the local area network. IP routing table is defined on IP Ethernet devices (the ZyXEL Device) to decide which hop to use, to help forward data along to its specified destination. The following lists out the steps taken, when a computer tries to access the Internet for the first time through the ZyXEL Device.



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1 When a computer (which is in a different subnet) first attempts to access the Internet, it sends packets to its default gateway (which is not the ZyXEL Device) by looking at the MAC address in its ARP table. 50 Chapter 3 General System Setup G-4100 v2 User's Guide 2 When the computer cannot locate the default gateway, an ARP request is broadcast on the LAN. 3 The ZyXEL Device receives the ARP request and replies to the computer with its own MAC address.

4 The computer updates the MAC address for the default gateway to the ARP table. Once the ARP table is updated, the computer is able to access the Internet through the ZyXEL Device. 5 When the ZyXEL Device receives packets from the computer, it creates an entry in the IP routing table so it can properly forward packets intended for the computer. After all the routing information is updated, the computer can access the ZyXEL Device and the Internet as if it is in the same subnet as the ZyXEL Device. 3.5 General System Settings Click **ADVANCED > SYSTEM** to open this screen. Chapter 3 General System Setup 51 G-4100 v2 User's Guide Figure 14 **ADVANCED > SYSTEM** 52 Chapter 3 General System Setup G-4100 v2 User's Guide The following table describes the labels in this screen. Table 5 **ADVANCED > SYSTEM LABEL** System/Host Name Domain Name DESCRIPTION Enter a descriptive name (up to 40 characters) for identification purposes. Enter the domain name (if you know it) here. If you leave this field blank, the ZyXEL Device may obtain a domain name from a DHCP server.

The domain name entered by you is given priority over the DHCP server assigned domain name. Enter the device's geographical location. Enter the street address of the device's location. Enter the city of the device's location. Enter the state or province of the device's location.

Enter the zip code or postal code for the device's location. Enter the country of the device's location. Enter the name of the person responsible for this device. Enter the telephone number of the person responsible for this device. Enter the fax number of the person responsible for this device.

Location Information Location Name Address City State/Province ZIP/ Postal Code Country Contact Name Contact Telephone Contact FAX Chapter 3 General System Setup 53 G-4100 v2 User's Guide Table 5 **ADVANCED > SYSTEM (continued) LABEL** Contact Email Date/Time DESCRIPTION Enter the e-mail address of the person responsible for this device. Set the system date and time by selecting the appropriate choices from the drop-down list boxes. Get from my Computer Click this button to set the time and date on the ZyXEL Device to be the same as the management computer. Get from NTP server Use NTP (Network Time Protocol) Time Server Server IP/Domain Name Time Zone Update Time Daylight Saving Time Click this button to set the time and date on the ZyXEL Device to be the same as the management computer. Select this check box to set the ZyXEL Device to get time and date information from an NTP (Network Time Protocol) time server. Enter the IP address or URL of your time server. Check with your ISP/network administrator if you are unsure of this information. Choose the time zone of your location. This will set the time difference between your time zone and Greenwich Mean Time (GMT). Enter a number to determine how often the ZyXEL Device uses the NTP server to update the time and date.

Select this option if you use daylight savings time. Daylight saving is a period from late spring to early fall when many countries set their clocks ahead of normal local time by one hour to give more daytime light in the evening. Select the month and day that your daylight-savings time starts on if you selected Daylight Saving Time. Select the month and day that your daylight-savings time ends on if you selected Daylight Saving Time. Start Date End Date NAT (Network Address Enable NAT to have the ZyXEL Device translate Internet protocol addresses Translation) used within one network (for example a private IP address used in a local network) to a different IP address known within another network (for example a public IP address used on the Internet). See the LAN Devices chapter for more on NAT. IP Plug and Play (iPnP Select this option to activate the iPnP feature. This allows a computer to Technology) access the Internet without changing the network settings (such as IP address and subnet mask) of the computer, even when the IP addresses of the computer and the ZyXEL Device are not in the same subnet. When you disable the iPnP feature, only computers with dynamic IP addresses or static IP addresses in the same subnet as the ZyXEL Device's LAN IP address can connect to the ZyXEL Device or access the Internet through the ZyXEL Device. User Session Limited Select Unlimited to not place any restriction on the number of sessions that each user connected to the ZyXEL Device can use.

Select the other radio button and type a number (from 1 to 1024) if you want to specify how many sessions each user connected to the ZyXEL Device can use. If you activate NAT, select Enable in this field to prevent communication between subscribers. This is the default selection. Select Disable, to deactivate layer 2 security and allow communication between subscribers. Select Any to use any computer to access the web configurator on the ZyXEL Device.

Select Specify and then enter the IP address(es) or ranges of IP addresses of the computer(s) that are allowed to log in to configure the ZyXEL Device. The addresses can be on the LAN or the WAN. Layer 2 Isolation Security Secure administrator IP addresses 54 Chapter 3 General System Setup G-4100 v2 User's Guide Table 5 **ADVANCED > SYSTEM (continued) LABEL** Multicast Pass Through DESCRIPTION Select Enable to allow multicast traffic to pass through the ZyXEL Device. This may affect your network performance. Select Disable to prevent any multicast traffic from passing through the ZyXEL Device. This is the default setting. This feature affects the security of the ZyXEL Device's WAN port. Ping (Packet INternet Groper) is a protocol that sends out ICMP echo requests to test whether or not a remote host is reachable. Select Enable to have the ZyXEL Device respond to incoming Ping requests from the WAN. This is less secure since someone on the Internet can see that the ZyXEL Device is there by pinging it. Select Disable to have the ZyXEL Device not respond to incoming Ping requests from the WAN. This is more secure since someone on the Internet cannot see that the ZyXEL Device is there by pinging it. Secure Socket Layer (SSL) security allows you to create secure connections between the ZyXEL Device and the management or subscriber computer(s). Select Default to use the default system-generated SSL certificate. Select Customer Certificate to use a certificate obtained from a certificate authority.

Refer to the SSL (Secure Socket Layer) Security chapter for more information.



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