



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ZYXEL PRESTIGE 791R. You'll find the answers to all your questions on the ZYXEL PRESTIGE 791R in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ZYXEL PRESTIGE 791R  
User guide ZYXEL PRESTIGE 791R  
Operating instructions ZYXEL PRESTIGE 791R  
Instructions for use ZYXEL PRESTIGE 791R  
Instruction manual ZYXEL PRESTIGE 791R

## *Prestige 791R*

*G.SHDSL Router*

### *User's Guide*

Version 3.40

May 2003

**ZyXEL**  
*Unleash Networking Power*



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**Manual abstract:**

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Router Federal Communications Commission (FCC) Interference Statement This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: · · This device may not cause harmful interference. This device must accept any interference received, including interference that may cause undesired operations. This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. 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: 1. 2. 3.

4. 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.

Notice 1 Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Certifications Refer to the product page at [www.zyxel.com](http://www.zyxel.com). FCC Statement iii Prestige 791R G.SHDSL Router Information for Canadian Users The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operation, and safety requirements. The Industry Canada does not guarantee that the equipment will operate to a user's satisfaction. Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection.

In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly. The customer should be aware that the compliance with the above conditions may not prevent degradation of service in some situations. Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment. For their own protection, users should ensure that the electrical ground connections of the power utility, telephone lines, and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas. Caution Users should not attempt to make such connections themselves, but should contact the appropriate electrical inspection authority, or electrician, as appropriate. Note This digital apparatus does not exceed the class A limits for radio noise emissions from digital apparatus set out in the radio interference regulations of Industry Canada. iv Information for Canadian Users Prestige 791R G.SHDSL Router 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.

During the warranty period, and upon proof of purchase, should the product have indications of failure due to faulty workmanship and/or materials, ZyXEL will, at its discretion, repair or replace the defective products or components without charge for either parts or labor, and to whatever extent it shall deem necessary to restore the product or components to proper operating condition. Any replacement will consist of a new or re-manufactured functionally equivalent product of equal value, and will be solely at the discretion of ZyXEL. This warranty shall not apply if the product is modified, misused, tampered with, damaged by an act of God, or subjected to abnormal working conditions. Note Repair or replacement, as provided under this warranty, is the exclusive remedy of the purchaser. This warranty is in lieu of all other warranties, express or implied, including any implied warranty of merchantability or fitness for a particular use or purpose.

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Brief description of the problem and the steps you took to solve it. METHOD E-MAIL SUPPORT/SALES TELEPHONE/FAX WEB SITE/ FTP SITE  
REGULAR MAIL LOCATION WORLDWIDE support@zyxel.

com.tw +886-3-578-3942 www.zyxel.com www.europe.

zyxel.com sales@zyxel.com.tw NORTH AMERICA support@zyxel.com sales@zyxel.

com SCANDINAVIA support@zyxel.dk sales@zyxel.dk GERMANY support@zyxel.de sales@zyxel.de +886-3-578-2439 +1-714-632-0882 800-255-4101  
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ZyXEL Communications Corp.

, 6 Innovation Road II, ScienceBased Industrial Park, Hsinchu 300, Taiwan. vi Customer Support Prestige 791R G.SHDSL Router Table of Contents  
Copyright ...

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*12-8 12.3 Filter Rule Configuration.....*

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.....12-9 12.3.1 TCP/IP Filter Rule ..

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...12-10 12.3.2 Generic Filter Rule.....

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12-14 12.4 Filter Types and NAT ....

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.....12-16 12.

5 Example Filter.....

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12-21 Chapter 13 SNMP Configuration .....

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....13-1 13.

1 SNMP Overview.....

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...13-1 13.2 Supported MIBs .

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...13-2 13.3 SNMP Configuration .

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*13-2 13.4 SNMP Traps ....*

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*13-3 Chapter 14 System Maintenance .....*

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*.....14-1 14.1 System Maintenance Overview ....*

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*.14-1 14.2 System Status...*

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*14-1 14.3 System Information....*

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*14-3 14.3.1 System Information...*

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*.....14-3 14.3.*

*2 Console Port Speed .....*

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*.14-5 14.4 Log and Trace ...*

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*.....14-5 14.*

*4.1 Viewing Error Log.....*

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*.....14-5 14.4.*

*2 Syslog .....*

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*.14-6 14.5 Diagnostic ...*

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*.....14-8 Chapter 15 Firmware and Configuration File Maintenance .....*

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*15-1 x Table of Contents Prestige 791R G.SHDSL Router 15.1 Filename Conventions.....*

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*..15-1 15.2 Backup Configuration .....*

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...15-2 15.2.  
*1 Backup Configuration .....*

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.....15-3 15.2.2 *Using the FTP Command from the Command Line.*

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.....15-3 15.2.3 *Example of FTP Commands from the Command Line ..*

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*15-3 15.2.4 GUI-based FTP Clients .....*

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..15-4 15.2.5 *TFTP and FTP over WAN Will Not Work When.....*

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....15-4 15.2.6 *Backup Configuration Using TFTP ....*

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.....15-5 15.2.7 TFTP Command Example.

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.....15-5 15.2.8 GUI-based TFTP Clients...

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15-5 15.2.9 Backup Via Console Port ...

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.....15-6 15.3 Restore Configuration .....

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*15-7 15.3.1 Restore Using FTP ...*

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*...15-8 15.3.2 Restore Using FTP Session Example ....*

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*.....15-9 15.3.3 Restore Via Console Port ...*

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*...15-9 15.4 Uploading Firmware and Configuration Files.....*

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*..15-10 15.4.1 Firmware File Upload .*

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*.....15-10 15.*

*4.2 Configuration File Upload .....*

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*....15-11 15.4.3 FTP File Upload Command from the DOS Prompt Example ....*

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*.15-12 15.4.4 FTP Session Example of Firmware File Upload ..*

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*...15-12 15.4.*

*5 TFTP File Upload .....*

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.....15-12 15.4.6 TFTP Upload Command Example ..

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.....15-13 15.

4.7 Uploading Via Console Port.....

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..15-13 15.4.8 Uploading Firmware File Via Console Port.....

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.15-14 15.4.9 Example Xmodem Firmware Upload Using HyperTerminal..

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....15-14 15.4.10 Uploading Configuration File Via Console Port ....

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.....15-15 15.4.11 Example Xmodem Configuration Upload Using HyperTerminal..

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*..15-15 Chapter 16 System Maintenance and Information .....*

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*...16-1 16.1 Command Interpreter Mode .....*

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*.....16-1 16.2 Call Control Support .....*

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*.....16-2 16.2.*

*1 Budget Management .....*

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.....16-2 16.  
*3 Time and Date Setting.....*

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*.....16-4 16.3.1 Resetting the Time ...*

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*....16-5 Chapter 17 IP Policy Routing.....*

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*17-1 17.1 IP Policy Routing Overview .....*

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*.17-1 17.1.1 IP Policy Routing Benefits.....*

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*.....17-1 17.1.  
2 Routing Policy.....*

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*....17-1 17.2 IP Routing Policy Setup .....*

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*..17-2 17.3 Applying an IP Policy .....*

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.....17-5 17.3.

1 Ethernet IP Policies .....

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.17-5 17.4 IP Policy Routing Example .....

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.....17-7 Table of Contents xi Prestige 791R G.  
SHDSL Router Chapter 18 Call Scheduling .....

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*...18-1 18.1 Call Scheduling Overview .*  
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*.....18-1 18.2 Schedule Setup..*

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*.....18-1 Chapter 19 Remote Management.*

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*...19-1 19.1 Remote Management Overview.*

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.....19-1 19.1.1 Remote Management and Telnet Services ....

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.....19-1 19.1.2 Remote Management and FTP Services .

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...19-1 19.1.3 Remote Management and Web Services.....

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.....19-2 19.

1.4 Disabling Remote Management....

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.....19-2 19.2 Remote Management Setup .

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*19-2 19.2.1 Remote Management Limitations .....*

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*.19-3 19.3 Remote Management and NAT ...*

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*..19-3 19.4 System Timeout .....*

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*..19-3 ADDITIONAL INFORMATION .....*

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*..20-2 20.3 Installing UPnP in Windows Example...*

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*..20-3 20.4 Using UPnP in Windows XP Example ..*

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*.....20-6 Chapter 21 Troubleshooting...*

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*.....21-1 21.1 Problems Starting Up the Prestige ....*

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.....21-1 21.2 Problems with the LAN Interface ..

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21-1 21.3 Problems with the WAN Interface....

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..21-2 21.4 Problems with Internet Access..

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21-2 21.5 Problems with the Password .....

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..... C Appendix C Power Adapter Specifications.....

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. G xii Table of Contents Prestige 791R G.SHDSL Router List of Figures Figure 1-1 Internet Access Application...

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..... 1-4 Figure 1-2 LAN-to-LAN Application ..

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. 1-4 Figure 2-1 Front Panel ....

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..... 2-1 Figure 2-2 Rear Panel ...

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..... 2-3 Figure 3-1 Login Screen .

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.. 3-2 Figure 3-2 Prestige SMT Menu Overview ...

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..... 3-4 Figure 3-3 SMT Main Menu ..

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3-6 Figure 3-4 System Password.....

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. 5-5 Figure 5-4 Menu 11.2 - Remote Node PPP Options .....

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... 5-7 Figure 5-5 Remote Node PPP Options Menu Fields..

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.... 5-7 Figure 5-6 Remote Node Network Layer Options .

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... 5-8 Figure 5-7 Remote Node Script ..

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.....5-11 Figure 5-8 Menu 11.  
5: Remote Node Filter (Ethernet) .....

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*5-12 Figure 6-1 Physical Network .....*

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*. 6-5 Figure 6-2 Partitioned Logical Networks.....*

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*.... 6-5 Figure 6-3 TCP/IP Ethernet Setup.*

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*..... 6-6 Figure 6-4 LAN Port Filter Setup ..*

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..... 6-8 Figure 6-8 TCP/IP and DHCP Ethernet Setup ....

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. 6-9 Figure 7-1 Example of Traffic Shaping....

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..... 7-4 Figure 7-2 Internet Access Setup ...

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.. 7-6 Figure 8-1 Remote Node Setup.....

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*8-11 Figure 8-11 Menu 11.6 for VC-based Multiplexing (non-PPP Encapsulation)....*

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*.8-12 Figure 8-12 Menu 11.6 for LLC-based Multiplexing or PPP Encapsulation .....*

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*8-13 Figure 9-1 Sample Static Routing Topology Configuration .....*

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*.....9-1 Figure 9-2 Static Route Setup .....*

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*.....9-2 Figure 9-3 IP Static Route Setup....*

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.....11-9 Figure 11-8 Address Mapping Rules ....

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.. 11-11 Figure 11-9 Editing/Configuring an Individual Rule in a Set ...

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.11-13 Figure 11-10 NAT Server Sets .....

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..11-15 Figure 11-11 NAT Server Setup...

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*.11-16 Figure 11-12 Multiple Servers Behind NAT Example....*

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*.11-17 Figure 11-13 NAT Example 1 .....*

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*.....11-18 Figure 11-14 Internet Access & NAT Example ..*

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*.....11-18 Figure 11-15 NAT Example 2 ..*

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.....11-19 Figure 11-16 NAT Example 2 - Menu 15.2.1 ...

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11-20 Figure 11-17 NAT Example 3 .....

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.....11-21 Figure 11-18 Example 3 - Menu 11.3 ..

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...11-21 Figure 11-19 Example 3 - Menu 15.1.

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.....11-22 Figure 11-20 Example 3 - Final Menu 15.1.1...

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11-23 Figure 11-21 Example 3- Menu 15.2 .....

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..11-24 Figure 11-22 NAT Example 4 ...

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...11-24 Figure 11-23 Example 4 - Menu 15.

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.....11-25 Figure 11-24 Example 4 - Menu 15.1.1 ..

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11-26 Figure 12-1 Outgoing Packet Filtering Process .....

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..12-2 Figure 12-2 Filter Rule Process ...

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.....12-3 Figure 12-3 Filter Set Configuration..

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.....12-4 Figure 12-4 NetBios WAN Filter Rules Summary ...

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....12-5 Figure 12-5 NetBios LAN Filter Rules Summary .....

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..12-5 Figure 12-6 Telnet\_WAN Filter Rules Summary.....

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..12-6 Figure 12-7 PPPoE Filter Rules Summary .....

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*.12-6 xiv List of Figures Prestige 791R G.SHDSL Router Figure 12-8 FTP\_WAN Filter Rules Summary.....*

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*.... 12-7 Figure 12-9 Web Set1 Filter Rules Summary .....*

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*..... 12-7 Figure 12-10 Web Set2 Filter Rules Summary..*

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*. 12-8 Figure 12-11 TCP/IP Filter Rule ....*

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.. 12-17 Figure 12-16 Sample Filter Rules Summary -- Menu 21.1.....

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.... 12-18 Figure 12-17 Sample Filter Rules Summary -- Menu 21.3.1....

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.... 12-19 Figure 12-18 Sample Filter Rules Summary -- Applying a Remote Node Filter Set.....

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..... 12-20 Figure 12-19 Filtering Ethernet Traffic ....

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..... 12-21 Figure 12-20 Filtering Remote Node Traffic ..

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. 12-21 Figure 13-1 SNMP Management Model ....

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... 13-1 Figure 13-2 SNMP Configuration.....

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13-3 Figure 14-1 System Maintenance.....

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..... 14-1 Figure 14-2 System Maintenance -- Status ..

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14-2 Figure 14-3 System Information and Console Port Speed .....

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14-3 Figure 14-4 System Maintenance -- Information.....

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..... 14-4 Figure 14-5 System Maintenance Change Console Port Speed ..

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.. 14-5 Figure 14-6 System Maintenance -- Log and Trace.....

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..... 14-5 Figure 14-7 Sample Error and Information Messages ....

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*.. 14-6 Figure 14-8 System Maintenance -- Syslog and Accounting...*

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*..... 14-6 Figure 14-9 System Maintenance -- Diagnostic ...*

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*..... 14-8 Figure 15-1 System Maintenance - Backup Configuration....*

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*15-3 Figure 15-2 FTP Session Example.....*

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. 15-4 Figure 15-3 System Maintenance Backup Configuration .....

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.... 15-6 Figure 15-4 System Maintenance Starting Xmodem Download Screen .

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..... 15-6 Figure 15-5 Backup Configuration Example .....

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15-7 Figure 15-6 Successful Backup Confirmation Screen.....

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.. 15-7 Figure 15-7 System Maintenance - Restore Configuration.....

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. 15-8 Figure 15-8 Restore Using FTP Session Example ....

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... 15-9 Figure 15-9 System Maintenance Restore Configuration ..

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..... 15-9 Figure 15-10 System Maintenance Starting Xmodem Download Screen ....

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15-9 Figure 15-11 Restore Configuration Example .....

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. 15-10 Figure 15-12 Successful Restoration Confirmation Screen ....

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..... 15-10 Figure 15-13 System Maintenance - Upload System Firmware...

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...15-11 Figure 15-14 Telnet Into Menu 24.7.2 System Maintenance .....

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..15-11 Figure 15-15 FTP Session Example of Firmware File Upload ...

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... 15-12 Figure 15-16 Menu 24.7.  
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.. 15-14 Figure 15-17 Example Xmodem Upload .....

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. 15-14 List of Figures xv Prestige 791R G.SHDSL Router Figure 15-18 Menu 24.7.2 as seen using the Console Port.

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...16-2 Figure 16-4 Budget Management .....

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.16-3 Figure 16-5 System Maintenance ....

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.....16-4 Figure 16-6 System Maintenance -- Time and Date Setting.

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.16-4 Figure 17-1 IP Routing Policy Setup .....

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.....17-2 Figure 17-2 Sample IP Routing Policy Setup .

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....17-3 Figure 17-3 IP Routing Policy .

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..17-4 Figure 17-4 TCP/IP and DHCP Ethernet Setup ...

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....17-6 Figure 17-5 Remote Node Network Layer Options.



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<http://yourpdfguides.com/dref/3685575>



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*17-6 Figure 17-6 Example of IP Policy Routing.....*

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*....17-7 Figure 17-7 IP Routing Policy Example .*

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*..17-8 Figure 17-8 IP Routing Policy .....*

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*.....17-9 Figure 17-9 Applying IP Policies.*

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*...17-9 Figure 18-1 Schedule Setup.....*

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*.....18-1 Figure 18-2 Schedule Set Setup.....*

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*.18-2 Figure 18-3 Applying Schedule Set(s) to a Remote Node (PPPoE).....*

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*...18-4 Figure 19-1 Telnet Configuration on a TCP/IP Network .....*

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*.19-1 Figure 19-2 Remote Management Control ....*

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*19-2 Figure 20-1 Configuring UPnP.....*

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*..20-3 xvi List of Figures Prestige 791R G.SHDSL Router List of Tables Table 2-1 Front Panel LED Description..*

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*... 2-2 Table 3-1 Main Menu Commands.....*

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*..... 3-5 Table 3-2 Main Menu Summary ...*

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*... 3-6 Table 3-3 General Setup.....*

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*.. 3-9 Table 3-4 Configure Dynamic DNS.....*

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..3-11 Table 4-1 WAN Setup .....

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.... 4-4 Table 5-1 Menu 2: Dial Backup Setup .....

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. 5-2 Table 5-2 Advanced WAN Port Setup: AT Commands Fields .....

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.. 5-3 Table 5-3 Advanced WAN Port Setup: Call Control Parameters .....

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..... 5-4 Table 5-4 Remote Node Profile (Backup ISP) .

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.... 5-5 Table 5-5 Remote Node Network Layer Options.

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5-8 Table 5-6 Remote Node Script .....

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...5-11 Table 6-1 IP Alias Setup..

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.. 6-8 Table 6-2 TCP/IP and DHCP Ethernet Setup .....

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..... 6-9 Table 7-1 Internet Account Information.

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.... 7-5 Table 7-2 Internet Access Setup .

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.. 10-2 Table 10-2 Edit Bridge Static Route...  
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..... 10-3 Table 11-1 NAT Definitions .....

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.....11-1 Table 11-2 NAT Mapping Types ..

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...11-5 Table 11-3 Applying NAT to the Remote Node .....

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*....11-7 Table 11-4 Address Mapping Rules - SUA .....*

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*....11-9 Table 11-5 Address Mapping Rules .*

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*..11-11 Table 11-6 Editing/Configuring an Individual Rule in a Set.....*

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*...11-13 Table 11-7 Services & Port Numbers..*

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.....11-14 Table 12-1 Abbreviations Used in the Filter Rules Summary Menu.

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..... 12-8 Table 12-2 Rule Abbreviations Used .

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..... 12-9 Table 12-3 TCP/IP Filter Rule....

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..... 12-10 Table 12-4 Generic Filter Rule Menu Fields...

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*. 12-15 Table 12-5 Filter Sets Table ....*

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*12-20 Table 13-1 SNMP Configuration .....*

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*..... 13-3 Table 13-2 SNMP Traps..*

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*13-3 Table 14-1 System Maintenance -- Status .....*

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... 14-2 Table 14-2 System Maintenance -- Information .....

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... 14-4 Table 14-3 System Maintenance Menu -- Syslog Parameters.....

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.. 14-7 Table 14-4 System Maintenance Menu -- Diagnostic.....

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... 14-9 List of Tables xvii Prestige 791R G.SHDSL Router Table 15-1 Filename Conventions .....

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*.15-2 Table 15-2 General Commands for GUI-based FTP Clients ....*

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*.....15-4 Table 15-3 General Commands for GUI-based TFTP Clients ..*

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*.....15-6 Table 16-1 Budget Management..*

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*...16-3 Table 16-2 Time and Date Setting Fields.....*

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*16-5 Table 17-1 IP Routing Policy Setup Abbreviations .....*

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*.17-3 Table 17-2 IP Routing Policy....*

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*.17-4 Table 18-1 Schedule Set Setup ....*

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*.....18-2 Table 19-1 Remote Management Control..*

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....19-2 Table 20-1 Configuring UPnP .

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..20-3 Table 21-1 Troubleshooting the Start-Up of Your Prestige ...

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..21-1 Table 21-2 Troubleshooting the LAN Interface .....

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....21-1 Table 21-3 Troubleshooting the WAN Interface .....

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.....21-2 Table 21-4 Troubleshooting Internet Access.....

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..21-2 Table 21-5 Troubleshooting the Password ...

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..21-3 Table 21-6 Troubleshooting Telnet .....

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...21-3 xviii List of Tables Prestige 791R G.SHD DSL Router Preface Congratulations on your purchase of the Prestige 791R G.

SHDSL Router. The Prestige is a high-performance router for Internet/LAN access via a telephone line. Your Prestige supports multi-protocol routing for TCP/IP, as well as transparent bridging for other protocols. The Prestige supports symmetrical multi-rate data transmission speeds 72 Kbps up to 2312 Kbps.

The actual rate depends on the copper category of your telephone wires, distance from the central office and the type of DSL service you subscribe to. Its 10/100M auto-negotiating LAN interface enables fast data transfer of either 10Mbps or 100Mbps in either half-duplex or full-duplex mode depending on your Ethernet network. See the following section for more background information on DSL. The Prestige uses TC-PAM line code with echo cancellation for high data rate transmissions over a singletwisted telephone wire pair without being affected by bridge taps or mixed cable links. It also provides high immunity from background noise. Your Prestige is easy to install and configure. All functions are configurable via the SMT (System Management Terminal) and web configurator. Advanced users may configure the Prestige using CLI (Command Line Interface) commands. Please visit our web site at [www.zyxel.com](http://www.zyxel.com) for the latest release notes and product information.

Don't forget to register your Prestige (fast, easy online registration at [www.zyxel.com](http://www.zyxel.com)) for free future product updates and information. About This User's Guide This manual is designed to guide you through the configuration of your Prestige for its various applications. Primarily SMT menus are shown, but web configurator screens are shown for features that do not have SMT menus or the recommendation is to configure via web configurator. 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. ZyXEL Web Site The ZyXEL download library at [www.zyxel.com](http://www.zyxel.com)

contains additional support documentation. Please also refer to [www.zyxel.com](http://www.zyxel.com) for an online glossary of networking terms. Preface xix Prestige 791R G. SHDSL Router Syntax Conventions · · "Type" means for you to type one or more characters and press the carriage return. "Select" or "Choose" means for you to use one predefined choices. The SMT menu titles and labels are in Bold Times New Roman font. Predefined field choices are in Bold Arial font. Command

and arrow keys are enclosed in square brackets.

[ENTER] means the Enter, or carriage return key; [ESC] means the Escape key and [SPACE BAR] means the Space Bar. For brevity's sake, we will use "e.g.," as a shorthand for "for instance", and "i.e.," for "that is" or "in other words" throughout this manual. The Prestige 791R may be referred to as the Prestige in this user's guide. Images of Prestige 791R are used throughout this document unless otherwise specified. The following section offers some background information on DSL. Skip to Chapter 1 if you wish to begin working with your router right away.

· · · xx Preface Prestige 791R G.SHDSL Router What is DSL? DSL (Digital Subscriber Line) technology enhances the data capacity of the existing twisted-pair wire that runs between the local telephone company switching offices and most homes and offices. While the wire itself can handle higher frequencies, the telephone switching equipment is designed to cut off signals above 4,000 Hz to filter noise off the voice line, but now everybody is searching for ways to get more bandwidth to improve access to the Web - hence DSL technologies. There are actually seven types of DSL service, ranging in speeds from 16 Kbits/sec to 52 Mbits/sec.



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The services are either symmetrical (traffic flows at the same speed in both directions), or asymmetrical (the downstream capacity is higher than the upstream capacity). Asymmetrical services (ADSL) are suitable for Internet users because more information is usually downloaded than uploaded. For example, a simple button click in a web browser can start an extended download that includes graphics and text. As data rates increase, the carrying distance decreases. That means that users who are beyond a certain distance from the telephone company's central office may not be able to obtain the higher speeds.

A DSL connection is a point-to-point dedicated circuit, meaning that the link is always up and there is no dialing required.

What is G.SHDSL? G.SHDSL (Single-pair High-speed Digital Subscriber Line) is a symmetrical, bi-directional DSL service that operates on one twisted-pair wire and provides data rates up to 2.3 Mb/s/sec. (The "G."

" in "G.SHDSL" is defined by the G.991.2 ITU (International Telecommunication Union) state-of-the-art industry standard). What is DSL? xxi Getting Started Part I: GETTING STARTED This part covers Getting to Know Your Prestige, Hardware Installation, Initial Setup, WAN, Dial Backup, LAN and Internet Access.

1 Prestige 791R G.SHDSL Router Chapter 1 Getting to Know Your G.SHDSL Router This chapter covers the key features and main applications of your Prestige. The Prestige 791R Router can be used for high-speed LAN-to-LAN connections or Internet access through a G.SHDSL connection over the telephone line. You can use your Prestige for either IP routing or bridging depending on your ISP (Internet Service Provider) configuration. 1.1 Features of the Prestige The following features make the Prestige a complete and the flexible networking solution for most users. High Speed Scalability One of the best features of G.SHDSL service is its scalability.

Your Prestige G.SHDSL router supports symmetrical multi-rate data transmission speeds from 64 Kbps up to 2312 Kbps. You can increase the capacity of the Internet connection (within certain distance limitations) without changing your ISP or purchasing new equipment. G.SHDSL's high symmetrical speeds are ideal for applications like web hosting and videoconferencing as well as the two-way data traffic needs of businesses. Symmetrical High Speed Internet Access

The Prestige 791R supports symmetrical transmission up to 2.3 Mb/s. For NSP's (Network Service Provider) convenience, the Prestige also supports rate management depending on distances and service charges. SNMP (Simple Network Management Protocol versions 1 and 2) SNMP, a member of the TCP/IP protocol suite, allows you to exchange management information between network devices. Your Prestige supports SNMP agent functionality that allows a manager station to manage and monitor the Prestige through the network.

SNMP is only available if TCP/IP is configured on your Prestige. IP Multicast Deliver IP packets to a specific group of hosts using IP multicast. IGMP (Internet Group Management Protocol) is the protocol used to support multicast groups. The latest version is version 2 (see RFC 2236); the Prestige supports both versions 1 and 2. Getting to Know Your G.

SHDSL Router 1-1 Prestige 791R G.SHDSL Router IP Alias IP Alias allows you to partition a physical network into logical networks over the same Ethernet interface. The Prestige supports three logical LAN interfaces via its single physical Ethernet interface with the Prestige itself as the gateway for each LAN network. IP Policy Routing IP Policy Routing provides a mechanism to override the default routing behavior and alter packet forwarding based on the policies defined by the network administrator. 10/100MB Auto-negotiation Ethernet/Fast Ethernet Interface This auto-negotiation feature allows the Prestige to detect the speed of incoming transmissions and adjust appropriately, providing a faster data transfer on the Ethernet network as required.

It enables fast data transfer of either 10 Mbps or 100 Mbps in either half-duplex or full-duplex mode depending on your Ethernet network. Protocols Supported . . . TCP/IP (Transmission Control Protocol/Internet Protocol) network layer protocol. PPP (Point-to-Point Protocol) link layer protocol. SUA (Single User Account) and NAT (Network Address Translation). PAP and CHAP Security The Prestige supports PAP (Password Authentication Protocol) and CHAP (Challenge Handshake Authentication Protocol). CHAP is more secure than PAP; however, PAP is available on more platforms. DHCP Support DHCP (Dynamic Host Configuration Protocol) allows the individual clients (computers) to obtain the TCP/IP configuration at start-up from a centralized DHCP server. The Prestige has built-in DHCP server capability, enabled by default, which means it can assign IP addresses, an IP default gateway and DNS servers to other systems that support the DHCP client. The Prestige can now also act as a surrogate DHCP server (DHCP Relay) where it relays IP address assignment from the actual real DHCP server to the clients. Encapsulation The Prestige supports PPPoE, PPP over ATM (RFC-2364), Multiple Protocol over ATM (RFC-1483) and ENET ENCAP.

SUA for Single-IP Address Internet Access The Prestige's SUA (Single User Account, equivalent to NAT) feature allows multiple user Internet access for the cost of a single ISP account and allows multiple users on the LAN (Local Area Network) to access the Internet concurrently. SUA supports popular Internet applications such as MS traceroute, CuSeeMe, 1-2 Getting to Know Your G.SHDSL Router Prestige 791R G.SHDSL Router IRC, ICQ, RealAudio, VDOLive, Quake and PPTP. No extra configuration is needed to support these applications. SUA address mapping can also be used for other LAN-to-LAN connections. Universal Plug and Play (UPnP) Using the standard TCP/IP protocol, the Prestige and other UPnP enabled devices can dynamically join a network, obtain an IP address and convey its capabilities to other devices on the network. Full Network Management . . . Menu driven SMT (System Management Terminal) management SNMP manageable Web Configurator Upgrade Firmware via LAN In addition to the direct console port connection, the Prestige supports the up/downloading of firmware and configuration file over the LAN. Packet Filtering Packet filtering blocks unwanted traffic from entering/leaving your network. Ease of Installation Your Prestige is designed for quick, easy and intuitive installation.

Its compact size and light weight make it easy to position anywhere in your busy office. Multiple PVC (Permanent Virtual Circuits) Support Your Prestige supports up to 12 PVC's. All-in-one Console and Auxiliary Port Set the CON/AUX switch to the "CON" side when using the CON/AUX port as a regular console port for local device configuration and management. Set this switch to the "AUX" side when using the CON/AUX port as an auxiliary dial-up WAN connection.



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2 Application Scenarios for the Prestige This section provides examples on how your Prestige can be used. 1.2.1 Internet Access Getting to Know Your G.SHDSL Router 1-3 Prestige 791R G.

SHDSL Router Figure 1-1 Internet Access Application Your Prestige can act as either of the following: · A bridge for multi-computer/MAC bridging (RFC-1483, bridged Ethernet/802.3). 1.2.2 LAN-to-LAN Application You can use the Prestige to connect two geographically dispersed networks over the DSL line. A typical LAN-to-LAN application is shown next. Figure 1-2 LAN-to-LAN Application 1-4 Getting to Know Your G.SHDSL Router Prestige 791R G.SHDSL Router Chapter 2 Hardware Installation This chapter introduces the Prestige hardware and shows you how to make cable connections. 2.

1 Installation Requirements In addition to your Prestige package, your computer should include the following hardware and software: · An Ethernet 10/100Base-T NIC (Network Interface Card). Communications software configured as follows: VT100 terminal emulation; 9600 Baud; No parity, 8 Data bits, 1 Stop bit, no Flow Control. 2.2 Front Panel The LED indicators on the front panel show the operational status of the Prestige. Figure 2-1 Front Panel Hardware Installation 2-1 Prestige 791R G.SHDSL Router Table 2-1 Front Panel LED Description LED PWR COLOR Green STATUS On Off SYS Green On Flashing Off Red 10/100M LAN Green On On Flashing Off Orange On Flashing Off CON/AUX Green On Off Orange On Flashing Off DESCRIPTION The Prestige is receiving power. The Prestige is not receiving power. The Prestige is functioning properly. The Prestige is rebooting. The system is not ready or has malfunctioned.

Power to the Prestige is too low. The Prestige has a successful 10Mb Ethernet connection. The Prestige is sending/receiving data. The Prestige does not have 10Mb Ethernet connection. The Prestige has a successful 100Mb Ethernet connection.

The Prestige is sending/receiving data. The Prestige does not have 100Mb Ethernet connection. The CON/AUX switch is set to CON and the CON/AUX port is connected to a management computer. The CON/AUX link is not ready, or has failed. The CON/AUX switch is set to AUX and the CON/AUX port has an Internet connection through a dial-up modem.

The CON/AUX switch is set to AUX and the CON/AUX port is sending or receiving data through a dial-up modem. The CON/AUX link is not ready, or has failed. The Prestige is linked successfully to a DSLAM. The Prestige is initializing the DSL line. The DSL link is down. The Prestige is sending/receiving data. The system is ready, but is not sending/receiving data. The Prestige is initiating a PPPoE connection. DSL Green On Flashing Off PPP/ACT Green Flashing Off Orange On 2-2 Hardware Installation Prestige 791R G.SHDSL Router 2.

3 Rear Panel Figure 2-2 Rear Panel 2.3.1 DSL Port Connect the Prestige directly to the wall jack using a telephone wire (RJ-11 connector). 2.3.2 LAN 10/100M Ethernet 10Base-T/100Base-T networks use Shielded Twisted Pair (STP) cable with RJ-11 (POTS) connectors or RJ-45 (ISDN) connectors that look like a bigger telephone plug with 8 pins. The LAN port is auto-sensing, so you may use the crossover cable provided or a straight-through Ethernet cable to connect your Prestige to a computer/external hub. 2.3.3 CON/AUX Port Set this switch to the "CON" side to use the CON/AUX port as a regular console port for local device configuration and management.

Connect the 9-pin male end of the console cable to the console port of the Prestige and the other end (choice of 9-pin or 25-pin, depending on your computer) end to a serial port (COM1, COM2 or other COM port) of your computer. Your computer should have a terminal emulation communications program (such as HyperTerminal) set to VT100 terminal emulation, no parity, 8 data bits, 1 stop bit, no data flow and 9600 bps port speed. Set this switch to the "AUX" side to use the CON/AUX port as an auxiliary dial-up WAN connection. Connect the 9-pin male end of the cable to the CON/AUX port and use the included CON/AUX converter on the other 9-pin end of the cable to connect to a modem or TA. Hardware Installation 2-3 Prestige 791R G.

SHDSL Router 2.3.4 Reset Button The Prestige comes with a reset button built into the rear panel. Use this button to restore the factory default password to 1234, IP address to 192.168.

1.1, subnet mask to 255.255.255.0 and DHCP server enabled with a pool of 32 IP addressed starting at 192.168.1.33. Hold this button in for between 1 and 3 seconds to restart the Prestige. Upload the default configuration file by holding this button in for more than 3 seconds.

Refer to section 3.2 for information on the resetting your Prestige. 2.3.5 Power Port Connect the power adapter to the port labeled POWER on the rear panel of your Prestige. Push in the power button when you want to turn on the Prestige. To avoid damage to the Prestige, make sure you use the supplied power adapter. Refer to the Power Adapter Specification Appendix for this information. 2.4 Turning On Your Prestige You can now turn on your Prestige by pushing in the power button (located on the back panel) to turn on your Prestige.

2-4 Hardware Installation Prestige 791R G.SHDSL Router Chapter 3 Initial Setup This chapter shows you how to set up your G.SHDSL connection using the SMT. 3.1 Configuring Your Prestige For Internet Access Configure your Prestige for Internet access using: SMT (System Management Terminal).

Web configurator (refer to the Quick Start Guide). 3.1.1 Procedure For SMT Configuration via Console Port Follow the steps below to access your Prestige via the console port. Configure a terminal emulation communications program as follows: VT100 terminal emulation, no parity, 8 data bits, 1 stop bit, data flow set to none, 9600 bps port speed.

Press [ENTER] to display the SMT password screen. The default password is "1234". 3.1.2 Procedure For SMT Configuration via Telnet The following procedure details how to telnet into your Prestige. Step 1. Step 2. Step 3. In Windows, click Start (usually in the bottom left corner), Run and then type "telnet 192.168.

1.1" (the default IP address) and click OK. Enter "1234" in the Password field. After entering the password you will see the main menu. Please note that if there is no activity for longer than five minutes (default timeout period) after you log in, your Prestige will automatically log you out. You will then have to telnet into the Prestige again. Initial Setup 3-1 Prestige 791R G.SHDSL Router 3.1.3 Connect to your Prestige Using the Web Configurator Step 1.

Step 2. Step 3. Launch your web browser. Enter "192.168.

1.1" as the URL. In the User Name field, type "admin". In the Password field, type "1234". Click OK.

Click the Help button for online web configurator HTML help. The remainder of this user's guide shows you how to configure the Prestige for Internet access using SMT screens.



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There are also some sections in this guide that also focus on using Telnet to configure the Prestige. 3.1.4 Entering Password The login screen appears after you press [ENTER], prompting you to enter the password, as shown next. For your first login, enter the default password "1234". As you type the password, the screen displays an asterisk "\*" for each character you type. Please note that if there is no activity for longer than five minutes after you log in, your Prestige will automatically log you out. Enter Password : \*\*\*\* Figure 3-1 Login Screen 3.

2 Resetting the Prestige If you forget your password or cannot access the Prestige, you will need to reload the factory-default configuration file. This means that you will lose all configurations that you had previously; the password will be reset to "1234" and the LAN IP address to 192.168.1.1. To obtain the default configuration file, download it from the ZyXEL FTP site, unzip it and save it in a folder. 3-2 Initial Setup Prestige 791R G.SHDSL Router 3.2.1

Methods of Restoring Factory-Defaults You can erase the current configuration and restore factory defaults in three ways: 1.

Transfer the configuration file to your Prestige using: the SMT menus. See later in this User's Guide for more information on this. the web configurator to restore defaults (see the web configurator HTML help) 2. Use the Reset button on the rear panel of the Prestige to upload the default configuration file (hold this button in for more than 3 seconds). Use this method for cases when the password or IP address of the Prestige is not known.

3.2.2 Prestige SMT Menu Overview The following figure gives you an overview of the various SMT menu screens of your Prestige. Initial Setup 3-3 Prestige 791R G.SHDSL Router Prestige Main Menu Menu 1 General Setup Menu 2 WAN Setup Menu 3 LAN Setup Menu 4 Internet Access Setup Menu 11 Remote Node Setup Menu 12 Static Routing Setup Menu 15 NAT Setup Menu 15.

1.x.x Address Mapping Rule Menu 1.1 Configure Dynamic DNS Menu 3.1 LAN Port Filter Setup Menu 11.6 Remote Node ATM Layer Options Menu 11.1 Remote Node Profile Menu 12.1 IP Static Route Setup Menu 12.1.1 Edit IP Static Route Menu 15.

1 Address Mapping Sets Menu 15.1.x Address Mapping Rules Menu 3.2.1 IP Alias Setup Menu 3.2 TCP/IP and DHCP Setup Menu 11.5 Remote Node Filter Menu 11.3 Remote Node Network Layer Options Menu 12.3 Bridge Static Route Setup Menu 12.3.

1 Edit Bridge Static Route Menu 15.2 NAT Server Sets Menu 15.2.x NAT Server Setup Menu 26 Schedule Setup Menu 25 IP Routing Policy Setup Menu 24 System Maintenance Menu 23 System Password Menu 22 SNMP Configuration Menu 26.x Schedule Set Setup Menu 25.

1 IP Routing Policy Setup Menu 24.1 System Maintenance -Status Menu 21.x.1 TCP/IP Filter Rule Menu 21.x Filter Rules Summary Menu 25.

1.1 IP Routing Policy Menu 24.11 Remote Management Menu 24.9.1 Budget Management Menu 24.2 System Information and Console Port Speed Menu 24..2.1 System Maintenance -Information Menu 24.2.

2 System Maintenance -Change Console Port Speed Menu 21.x.1 Generic Filter Rule Menu 24.10 Time and Date Setting Menu 24.9 Call Control Menu 24.8 Command Interpreter Mode Menu 24.3 System Maintenance -Log and Trace Menu 24.3.1 System Maintenance -View Error Log Menu 24.3.

2 System Maintenance -UNIX Syslog Menu 24.7.2 System Maintenance -Upload System Configuration File Menu 24.7.1 System Maintenance -Upload System Firmware Menu 24.

7 System Maintenance -Upload Firmware Menu 24.4 System Maintenance -Diagnostic Menu 24.6 System Maintenance -Restore Configuration Menu 24.5 System Maintenance -Backup Configuration Figure 3-2 Prestige SMT Menu Overview 3.3 Navigating the SMT Interface The SMT (System Management Terminal) is the interface that you use to configure your Prestige.

Several operations that you should be familiar with before you attempt to modify the configuration are listed in the table below. 3-4 Initial Setup Prestige 791R G.SHDSL Router Table 3-1 Main Menu Commands OPERATION Move down to another menu Move up to a previous menu KEYSTROKE [ENTER] [ESC] DESCRIPTION To move forward to a submenu, type in the number of the desired submenu and press [ENTER]. Press [ESC] to move back to the previous menu. Fields beginning with "Edit" lead to hidden menus and have a Move to a "hidden" Press [SPACE BAR] to change No default setting of No. Press [SPACE BAR] once to change No to menu to Yes then press Yes, then press [ENTER] to go to the "hidden" menu. [ENTER]. Move the cursor [ENTER] or Within a menu, press [ENTER] to move to the next field. You [UP]/[DOWN] arrow can also use the [UP]/[DOWN] arrow keys to move to the keys. previous and the next field, respectively.

Type in or press You need to fill in two types of fields. The first requires you to [SPACE BAR], then type in the appropriate information. The second allows you to press [ENTER]. cycle through the available choices by pressing [SPACE BAR]. <? > or ChangeMe All fields with the symbol <?> must be filled in order to be able to save the new configuration. All fields with ChangeMe must not be left blank in order to be able to save the new configuration. N/A fields

Save your configuration Exit the SMT <N/A> [ENTER] Some of the fields in the SMT will show a <N/A>. This symbol refers to an option that is Not Applicable. Save your configuration by pressing [ENTER] at the message "Press ENTER to confirm or ESC to cancel". Saving the data on the screen will take you, in most cases to the previous menu.

Type 99 at the main menu prompt and press [ENTER] to exit the SMT interface. Entering information Required fields Type 99, then press [ENTER]. After you enter the password, the SMT displays the main menu, as shown next. Initial Setup 3-5 Prestige 791R G.SHDSL Router Copyright (c) 1994 - 2003 ZyXEL Communications Corp.

Prestige 791R Main Menu Getting 1. 2. 3. 4. Started General Setup WAN Setup LAN Setup Internet Access Setup Advanced Management 21.

Filter Set Configuration 22. SNMP Configuration 23. System Password 24. System Maintenance 25. IP Routing Policy Setup 26. Schedule Setup 99. Exit Advanced Applications 11. Remote Node Setup 12. Static Routing Setup 15. NAT Setup Enter Menu Selection Number: \_ Figure 3-3 SMT Main Menu The SMT menu continually improves and changes with new firmware upgrades.

Check the release notes at [www.zyxel.com](http://www.zyxel.com) to find the most recent upgrades and information. 3.3.1 System Management Terminal Interface Summary Table 3-2 Main Menu Summary # 1 2 3 4 11 12 15 21 22 23 MENU TITLE General Setup WAN Setup LAN Setup Internet Access Setup Remote Node Setup Static Routing Setup NAT Setup Filter Set Configuration SNMP Configuration System Password DESCRIPTION Use this menu to set up your general information.

Use this menu to set up your WAN connection. Use this menu to set up your LAN connection.



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A quick and easy way to set up an Internet connection. Use this menu to set up the Remote Node for LAN-to-LAN connection, including Internet connection. Use this menu to set up static routes. Use this menu to specify inside servers when NAT is enabled. Use this menu to set up filters to provide security, etc. Use this menu to set up SNMP related parameters. Use this menu to change your password.

3-6 Initial Setup Prestige 791R G.SHDSL Router # 24 25 26 99 MENU TITLE System Maintenance DESCRIPTION This menu provides system status, diagnostics, software upload, etc. IP Routing Policy Setup Use this menu to configure your IP routing policy. Schedule Setup Exit Use this menu to schedule outgoing calls. Use this to exit from SMT and return to a blank screen.

3.4 Step 1. Step 2. Changing the System Password Enter 23 in the main menu to open Menu 23 - System Password as shown next. Type your existing system password (1234 is the default) in the Old Password field and press [ENTER]. Menu 23 System Password Old Password= ? New Password= ? Retype to confirm= ? Enter here to CONFIRM or ESC to CANCEL: Change the Prestige default password by following the steps shown next. Figure 3-4 System Password Step 3. Step 4. Type your new system password in the New Password field (up to 30 alphanumeric characters. Do not use spaces, but dashes "-" and underscores "\_" are accepted).

Then press [ENTER]. Re-type your new system password in the Retype to Confirm field for confirmation and press [ENTER]. Note that as you type a password, the screen displays an asterisk "\*" for each character you type. Initial Setup 3-7 Prestige 791R G.SHDSL Router If you forget your password, use the reset button to restore the default password of 1234. This will allow you to enter the SMT. Then use the above instructions to set a new password. 3.5 General Setup Menu 1 -- General Setup contains administrative and system-related information (shown next). The System Name field 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 Prestige System Name. In Windows 2000 click Start, Settings, 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 Prestige 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 Prestige System 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 DHCP from the ISP is used.

While you must enter the host name (System Name) on each individual computer, the domain name can be assigned from the Prestige via DHCP. 3.5.1 Dynamic DNS Dynamic DNS (Domain Name System) allows you to update your current dynamic IP address with one or many dynamic DNS services so that anyone can contact you (in NetMeeting, CU-SeeMe or other services). You can also access your FTP server or Web site on your own computer using a DNS-like address (for example, myhost.dhs.org, where myhost is a name of your choice) which will never change instead of using an IP address that changes each time you reconnect. Your friends or relatives will always be able to call you even if they don't know your IP address. 3-8 Initial Setup Prestige 791R G.SHDSL Router First of all, you need to have registered a dynamic DNS account with www.

dyndns.org. This is for people with a dynamic IP from their ISP or DHCP server that would still like to have a DNS name. To use this service, you must register with the Dynamic DNS service provider. The Dynamic DNS service provider will give you a password or key. The Prestige supports www.dyndns.org. You can apply to this service provider for Dynamic DNS service. DYNDNS Wildcard Enabling the wildcard feature for your host causes \*.yourhost.dyndns.org to be aliased to the same IP address as yourhost.dyndns.org.

This feature is useful if you want to be able to use, for example, www.yourhost.dyndns.org and still reach your hostname. 3.

5.2 Procedure To Configure Menu 1 Step 1. Enter 1 in the Main Menu to open Menu 1 -- General Setup (shown next). Menu 1 - General Setup System Name= ? Location= Contact Person's Name= Domain Name= Edit Dynamic DNS= No Route IP= Yes Bridge= No Press ENTER to Confirm or ESC to Cancel: Figure 3-5 General Setup Step 2. Fill in the required fields. Refer to the table shown next for more information about these fields. Table 3-3 General Setup FIELD System Name DESCRIPTION Choose a descriptive name for identification purposes. This name can be up to 30 alphanumeric characters long. Spaces are not allowed, but dashes "-" and underscores "\_" are accepted. Enter the geographic location (up to 31 characters) of your Prestige.

Enter the name (up to 30 characters) of the person in charge of this Prestige. EXAMPLE P650HW Location (optional) Contact Person's Name (optional) MyHouse JohnDoe Initial Setup 3-9 Prestige 791R G.SHDSL Router FIELD Domain Name DESCRIPTION Enter the domain name (if you know it) here. If you leave this field blank, the ISP may assign a domain name via DHCP. You can go to menu 24.8 and type "sys domainname" to see the current domain name used by your gateway. If you want to clear this field just press the [SPACE BAR]. The domain name entered by you is given priority over the ISP assigned domain name. Edit Dynamic DNS Route IP Bridge Press the [SPACE BAR] to select Yes or No (default). Select Yes to configure Menu 1. 1 -- Configure Dynamic DNS (discussed next). Set this field to Yes to enable or No to disable IP routing. You must enable IP routing for Internet access. Turn on/off bridging for protocols not supported (for example, SNA) or not turned on in the previous Route IP field. Select Yes to turn bridging on; select No to turn bridging off.

No Yes No EXAMPLE zyxel.com.tw 3.5.3 Procedure to Configure Dynamic DNS If you have a private WAN IP address, then you cannot use Dynamic DNS. Step 1. To configure Dynamic DNS, go to Menu 1 -- General Setup and select Yes in the Edit Dynamic DNS field. Press [ENTER] to display Menu 1.1-- Configure Dynamic DNS as shown next. Menu 1.1 - Configure Dynamic DNS Service Provider = WWW.DynDNS.ORG Active= Yes Host= me.ddns.org EMAIL= mail@mailserver USER= username Password= \*\*\*\*\* Enable Wildcard= No Press ENTER to confirm or ESC to cancel: Figure 3-6 Configure Dynamic DNS Follow the instructions in the next table to configure Dynamic DNS parameters.

3-10 Initial Setup Prestige 791R G.SHDSL Router Table 3-4 Configure Dynamic DNS FIELD Service Provider Active Host EMAIL USER Password Enable Wildcard DESCRIPTION This is the name of your Dynamic DNS service provider.



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Press [SPACE BAR] to select Yes and then press [ENTER] to make dynamic DNS active. Enter the domain name assigned to your Prestige by your Dynamic DNS provider. Enter your e-mail address. Enter your user name. Enter the password assigned to you. Your Prestige supports DYNDNS Wildcard. Press [SPACE BAR] and then [ENTER] to select Yes or No This field is N/A when you choose DDNS client as your service provider. No EXAMPLE WWW. DynDNS.ORG (default) Yes me.dyndns.org mail@mailserver When you have completed this menu, press [ENTER] at the prompt "Press ENTER to Confirm.." to save your configuration, or press [ESC] at any time to cancel. Initial Setup 3-11 Prestige 791R G.SHDSL Router Chapter 4 WAN This chapter shows you how to configure the WAN settings of your Prestige. 4.

1 LAN and WAN Overview This section provides information on LANs, WANs, TCP/IP parameters and configuring your prestige for Internet access. 4.1.1 LANs and WANs A LAN (Local Area Network) is a computer network limited to the immediate area, usually the same building or floor of a building. A WAN (Wide Area Network), on the other hand, is an outside connection to another network or the Internet. 4.1.2 LANs, WANs and the Prestige The actual physical connection determines whether the Prestige ports are LAN or WAN ports. There are two separate IP networks: one inside the LAN network, the other outside. The WAN network is shown next.

WAN 4-1 Prestige 791R G.SHDSL Router Figure 4-1 LAN & WAN IPs 4.2 WAN Setup Use Menu 2 WAN Setup to configure G.SHDSL settings for your WAN line. Different telephone companies deploy different types of G.SHDSL service. If you are unsure of any of this information, please check with your telephone company. 4.2.1 Service Type Is your Prestige acting as a Server or Client? 1.

2. The Prestige is a server if it is acting as a COE (Central Office Equipment). It will determine transfer rate and mode. The Prestige is a client if it is acting as a CPE (Customer Premise Equipment). 4.

2.2 Rate Adaption Both the Prestige and the peer must have the same transmission rate. Rate Adaption allows the Prestige to auto-detect the peer transfer rate. 4-2 WAN Prestige 791R G.SHDSL Router 4.

2.3 Transfer Rates The Prestige supports the following symmetrical multi-rate data transmission speeds: 72, 136, 200, 264, 392, 520, 776, 1032, 1160, 1544, 1736, 2056 and 2312Kbps. You can increase the capacity of the Internet connection (within certain limitations) without changing your ISP or buying new equipment. For back-to-back applications make sure that your Prestige and its peer have the same Transfer Max Rate and the same Transfer Min Rate. Two (maximum and minimum) transfer rates are used to accommodate fluctuations in line speed. This is known as Dynamic Bandwidth Allocation. 4.2.4 Standard Mode If your Prestige is a server, then select the mode that applies to your region: ANSI (American National Standards Institute) and ETSI (European Telecommunications Standards Institute). If your Prestige is a client, select the same Standard Mode that the server side selects.

ANSI and ETSI create recommendations and standards for the telecommunications industry. 4.3 WAN Setup Screen From the main menu, enter 2 to open menu 2. Menu 2 - WAN Setup Service Type= Client Rate Adaption= Enable Transfer Max Rate(Kbps)= 2312 Transfer Min Rate(Kbps)= 2312 Standard Mode= ANSI(ANNEX\_A) Dial-Backup: Active= No Port Speed= 115200 AT Command String: Init= at&fs0=0 Edit Advanced Setup= No Press ENTER to Confirm or ESC to Cancel: Figure 4-2 WAN Setup WAN 4-3 Prestige 791R G.SHDSL Router Table 4-1 WAN Setup FIELD Service Type Rate Adaption Transfer Max Rate (2312 Kbps) Transfer Min Rate (2312 Kbps) Standard Mode DESCRIPTION Press [SPACE BAR] to select Server (COE) or Client (CPE). Press [SPACE BAR] to select Enable (activate) or Disable (deactivate). Press [SPACE BAR] to select a Transfer Max Rate greater than or equal to the Transfer Min Rate and press [ENTER] to continue. Press [SPACE BAR] to select a Transfer Min Rate less than or equal to the Transfer Max Rate and press [ENTER] to continue. Press [SPACE BAR] to select ANSI (ANNEX A) or ETSI (ANNEX B) and press [ENTER] to continue. The Client side must match the Server side.

4-4 WAN Prestige 791R G.SHDSL Router Chapter 5 Dial Backup This chapter shows you how to configure Dial Backup for your Prestige. 5.1 Dial Backup Overview The Dial Backup port or CON/AUX port can be used in reserve, as a traditional dial-up connection, if the broadband connection to the WAN port fails. To set up the auxiliary port (Dial Backup or CON/AUX) for use in the event that the regular WAN connection is dropped, first make sure you have set up the switch and port connection (see the Hardware Installation chapter), then configure 1.

2. 3. Menu 2 - WAN Setup, Menu 2.1 - Advanced WAN Setup and Menu 11.1 - Remote Node Profile (Backup ISP) as shown next 5.

1.1 Configuring Dial Backup in Menu 2 From the main menu, enter 2 to open menu 2. Menu 2 - WAN Setup Service Type= Client Rate Adaption= Enable Transfer Max Rate(Kbps)= 2312 Transfer Min Rate(Kbps)= 2312 Standard Mode= ANSI(ANNEX\_A) Dial-Backup: Active= No Port Speed= 115200 AT Command String: Init= at&fs0=0 Edit Advanced Setup= No Press ENTER to Confirm or ESC to Cancel: Figure 5-1 Menu 2: Dial Backup Setup Dial Backup 5-1 Prestige 791R G.SHDSL Router Table 5-1 Menu 2: Dial Backup Setup FIELD Dial-Backup: Active Port Speed Use this field to turn the dial-backup feature on (Yes) or off (No). Press [SPACE BAR] and then press [ENTER] to select the speed of the connection between the Dial Backup port and the external device. Available speeds are: 9600, 19200, 38400, 57600, 115200 or 230400 bps. AT Command String: Init Enter the AT command string to initialize the WAN device. Consult the manual of your WAN device connected to your Dial Backup port for specific AT commands. To edit the advanced setup for the Dial Backup port, move the cursor to this field; press the [SPACE BAR] to select Yes and then press [ENTER] to go to Menu 2.1: Advanced Setup.

at&fs0=0 No 115200 DESCRIPTION EXAMPLE Edit Advanced Setup Yes When you have completed this menu, press [ENTER] at the prompt "Press ENTER to Confirm..." to save your configuration, or press [ESC] at any time to cancel. 5.1.2 Advanced WAN Setup Consult the manual of your WAN device connected to your Dial Backup port for specific AT commands. To edit the advanced setup for the Dial Backup port, move the cursor to the Edit Advanced Setup field in Menu 2 - WAN Setup, press the [SPACE BAR] to select Yes and then press [ENTER]. 5-2 Dial Backup Prestige 791R G.SHDSL Router Menu 2.1 - Advanced WAN Setup AT Command Strings: Dial= atdt Drop= ~~~+~ath Answer= ata Drop DTR When Hang Up= Yes AT Response Strings: CLID= NMBR = Called Id= Speed= CONNECT Press ENTER to Confirm or ESC to Cancel: Call Control: Dial Timeout(sec)= 60 Retry Count= 0 Retry Interval(sec)= N/A Drop Timeout(sec)= 20 Call Back Delay(sec)= 15 Figure 5-2 Advanced WAN Setup Table 5-2 Advanced WAN Port Setup: AT Commands Fields FIELD AT Command Strings: Dial Enter the AT Command string to make a call.



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