



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ZYXEL P-320W. You'll find the answers to all your questions on the ZYXEL P-320W in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ZYXEL P-320W
User guide ZYXEL P-320W
Operating instructions ZYXEL P-320W
Instructions for use ZYXEL P-320W
Instruction manual ZYXEL P-320W

P-320W

802.11g Wireless Firewall Router

User's Guide

Version 1.00
11/2005
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. Caution 1 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.

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· Use ONLY the dedicated power supply for your device. Connect the power cord or power adaptor to the right supply voltage (110V AC in North America or 230V AC in Europe). · Do NOT use the device if the power supply is damaged as it might cause electrocution. · If the power supply is damaged, remove it from the power outlet. · Do NOT attempt to repair the power supply. Contact your local vendor to order a new power supply. · 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. · 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. 6 Safety Warnings P-320W 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. 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.

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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. About This User's Guide This User's Guide is designed to guide you through the configuration of your Prestige using the 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. They contain connection information and instructions on getting started.

· 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! 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. Preface 25 P-320W User's Guide · "e.g.," is a shorthand for "for instance", and "i.e.," means "that is" or "in other words". Graphics Icons Key Prestige Computer Notebook computer Server DSLAM Firewall Modem Switch Router 26

Preface P-320W User's Guide CHAPTER 1 Getting to Know Your Prestige This chapter introduces the main features and applications of the Prestige. 1.1 Prestige Overview The Prestige is the ideal secure wireless firewall router for all data passing between the Internet and LAN's.

The Prestige provides NAT, port forwarding, firewall, DHCP server and many other powerful features. The Prestige has an embedded mini-PCI module for 802.11g Wireless LAN connectivity. The embedded web configurator is easy to operate. Note: Only use firmware for your Prestige's specific model.

1.2 Prestige Features The following sections describe Prestige features. 1.2.1 Physical Features 10/100 Mbps Auto-negotiating Ethernet/Fast Ethernet Interface(s) This auto-negotiation feature allows the Prestige 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. Auto-negotiation allows data transfer of 100 Mbps in full-duplex mode Auto-crossover 10/100 Mbps Ethernet Interface(s) These interfaces automatically adjust to either a crossover or straight-through Ethernet cable. 4-Port Switch A combination of switch and router makes your Prestige a cost-effective and viable network solution. You can add up to four computers to the Prestige without the cost of a hub.



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Add more than four computers to your LAN by using a hub. Chapter 1 Getting to Know Your Prestige 27 P-320W User's Guide Reset Button The Prestige reset button is 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 addresses starting at 192.168.1.33. 1.2.2 Non-Physical Features Firewall The Prestige is a stateful inspection firewall with DoS (Denial of Service) protection. By default, when the firewall is activated, all incoming traffic from the WAN to the LAN is blocked unless it is initiated from the LAN.

The Prestige firewall supports TCP/UDP inspection, DoS detection and prevention, real time alerts, reports and logs. Packet Filtering The packet filtering mechanism blocks unwanted traffic from entering/leaving your network. Time and Date The Prestige allows you to get the current time and date from an external server when you turn on your Prestige. You can also set the time manually. 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.

PPPoE PPPoE facilitates the interaction of a host with an Internet modem to achieve access to highspeed data networks via a familiar "dial-up networking" user interface. PPTP Encapsulation 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. The Prestige supports one PPTP server connection at any given time. 28 Chapter 1 Getting to Know Your Prestige P-320W User's Guide Dynamic DNS Support With Dynamic DNS (Domain Name System) support, you can have a static hostname alias for a dynamic IP address, allowing the host to be more easily accessible from various locations on the Internet.

You must register for this service with a Dynamic DNS service provider. 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. 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 Prestige supports SNMP agent functionality, which allows a manager station to manage and monitor the Prestige through the network. The Prestige supports SNMP version one (SNMPv1) and version two (SNMPv2). Network Address Translation (NAT) Network Address Translation (NAT) allows the translation of an Internet protocol address 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). Traffic Redirect Traffic Redirect forwards WAN traffic to a backup gateway on the LAN when the Prestige cannot connect to the Internet, thus acting as an auxiliary backup when your regular WAN connection fails.

Port Forwarding Use this feature to forward incoming service requests to a server on your local network. You may enter a single port number or a range of port numbers to be forwarded, and the local IP address of the desired server. DHCP (Dynamic Host Configuration Protocol) DHCP (Dynamic Host Configuration Protocol) allows the individual client 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 all systems that support the DHCP client. Chapter 1 Getting to Know Your Prestige 29 P-320W User's Guide Full Network Management The embedded web configurator is an all-platform web-based utility that allows you to easily access the Prestige's management settings and configure the firewall. Most functions of the Prestige are also software configurable via the SMT (System Management Terminal) interface. The SMT is a menu-driven interface that you can access over a telnet connection. RoadRunner Support In addition to standard cable modem services, the Prestige supports Time Warner's RoadRunner Service. Logging and Tracing · Built-in message logging and packet tracing. · Firewall logs.

· Content filtering logs. Upgrade Prestige Firmware via LAN The firmware of the Prestige can be upgraded via the LAN (refer to Maintenance- F/W Upload Screen). Embedded FTP and TFTP Servers The Prestige's embedded FTP and TFTP Servers enable fast firmware upgrades as well as configuration file backups and restoration. 1.2.

3 Wireless Features Wireless LAN The Prestige supports the IEEE 802.11g standard, which is fully compatible with the IEEE 802.11b standard, meaning that you can have both IEEE 802.11b and IEEE 802.11g wireless clients in the same wireless network.

Note: The Prestige may be prone to RF (Radio Frequency) interference from other 2.4 GHz devices such as microwave ovens, wireless phones, Bluetooth enabled devices, and other wireless LANs. Wi-Fi Protected Access Wi-Fi Protected Access (WPA) is a subset of the IEEE 802.11i security specification standard. Key differences between WPA and WEP are user authentication and improved data encryption. 30 Chapter 1 Getting to Know Your Prestige P-320W User's Guide Antenna The Prestige is equipped with a 2dBi fixed antenna to provide clear radio signal between the wireless stations and the access points. Wireless LAN MAC Address Filtering Your Prestige can check the MAC addresses of wireless stations against a list of allowed or denied MAC addresses. WEP Encryption WEP (Wired Equivalent Privacy) encrypts data frames before transmitting over the wireless network to help keep network communications private. OTIST (One Touch Intelligent Security Technology) OTIST allows your Prestige to assign its ESSID and security settings (WEP or WPA-PSK) to the ZyXEL wireless adapters that support OTIST and are within transmission range. The ZyXEL wireless adapters must also have OTIST enabled.

Association List With the association list, you can see the list of the wireless stations that are currently using the Prestige to access your wired network. 1.3 Applications for the Prestige Here are some examples of what you can do with your Prestige. 1.3.1 Secure Broadband Internet Access via Cable or DSL Modem You can connect a cable modem, DSL or wireless modem to the Prestige for broadband Internet access via an Ethernet or a wireless port on the modem.



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The Prestige guarantees not only high speed Internet access, but secure internal network protection and traffic management as well. Figure 1 Secure Internet Access via Cable, DSL or Wireless Modem Chapter 1 Getting to Know Your Prestige 31 P-320W User's Guide 1.3.2 Wireless LAN Application Add a wireless LAN to your existing network without expensive network cables.

Wireless stations can move freely anywhere in the coverage area and use resources on the wired network. Figure 2 Internet Access Application Example 1.3.3 Front Panel LEDs Figure 3 Front Panel The following table describes the LEDs. Table 1 Front Panel LEDs LED PWR COLOR Green STATUS On Blinking Red None On Off DESCRIPTION The Prestige is receiving power and functioning properly.

The Prestige is performing testing. Power to the Prestige is too low. The Prestige is not receiving power. 32 Chapter 1 Getting to Know Your Prestige P-320W User's Guide Table 1 Front Panel LEDs (continued) LED LAN 1-4 COLOR Green STATUS On Blinking Amber On Blinking None WAN Green Amber Off On Blinking On Blinking None WLAN Green Off On Blinking None OTIST Green Off Blinking On DESCRIPTION The Prestige has a successful 10Mb Ethernet connection. The Prestige is sending/receiving data.

The Prestige has a successful 100Mb Ethernet connection. The Prestige is sending/receiving data. The LAN is not connected. The Prestige has a successful 10Mb WAN connection. The Prestige is sending/receiving data. The Prestige has a successful 100Mb Ethernet connection. The Prestige is sending/receiving data. The WAN connection is not ready, or has failed. The Prestige is ready, but is not sending/receiving data through the wireless LAN. The Prestige is sending/receiving data through the wireless LAN.

The wireless LAN is not ready or has failed. OTIST is in progress OTIST is activated and the wireless security settings are given to a wireless client. The LED remains on unless the WLAN settings are changed. OTIST is not activated or WLAN settings are manually configured after OTIST is successful. None Off

Chapter 1 Getting to Know Your Prestige 33 P-320W User's Guide 34 Chapter 1 Getting to Know Your Prestige P-320W User's Guide CHAPTER 2 Introducing the Web Configurator This chapter describes how to access the Prestige web configurator and provides an overview of its screens. 2.1 Web Configurator Overview The web configurator is an HTML-based management interface that allows easy Prestige setup and management via Internet browser. Use Internet Explorer 6.0 and later or Netscape Navigator 7.0 and later versions.

The recommended screen resolution is 1024 by 768 pixels. In order to use the web configurator you need to allow: · Web browser pop-up windows from your device. Web pop-up blocking is enabled by default in Windows XP SP (Service Pack) 2. · JavaScripts (enabled by default). · Java permissions (enabled by default).

See the Troubleshooting chapter to see how to make sure these functions are allowed in Internet Explorer. 2.2 Accessing the Prestige Web Configurator 1 Make sure your Prestige hardware is properly connected and prepare your computer/ computer network to connect to the Prestige (refer to the Quick Start Guide). 2 Launch your web browser. 3 Type "192.

168.1.1" as the URL. 4 Type "1234" (default) as the password and click Login. In some versions, the default password appears automatically - if this is the case, click Login. Chapter 2 Introducing the Web Configurator 35 P-320W User's Guide Figure 4 Login 5 Select your language. click Apply. Figure 5 Language Selection 6 You should see a screen asking you to change your password (highly recommended) as shown next. Type a new password (and retype it to confirm) and click Apply or click Ignore. Figure 6 Change Password Screen 36 Chapter 2 Introducing the Web Configurator P-320W User's Guide 7 Click Go to Wizard setup to do initial configuration with the wizard, click Go to Advanced setup to configure advanced features, or click Exit to log out of the web configurator.

Figure 7 Select the Mode Note: The management session automatically times out when the time period set in the Administrator Inactivity Timer field expires (default five minutes). Simply log back into the Prestige if this happens to you. 2.3 Resetting the Prestige If you forget your password or cannot access the web configurator, you will need to use the RESET button at the back of the Prestige to reload the factory-default configuration file. This means that you will lose all configurations that you had previously and the password will be reset to "1234". 2.3.1 Procedure To Use The Reset Button 1 Make sure the PWR LED is on (not blinking). 2 Press the RESET button for ten seconds or until the PWR LED begins to blink and then release it. When the PWR LED begins to blink, the defaults have been restored and the Prestige restarts.

2.4 Navigating the Prestige Web Configurator The following summarizes how to navigate the web configurator from the Status screen. Chapter 2 Introducing the Web Configurator 37 P-320W User's Guide Figure 8 Web Configurator Status Screen The following table describes the icons shown in the Status screen.

Table 2 Status Screen Icon Key ICON DESCRIPTION Select a language from the drop-down list box to have the the web configurator display in that language. Click this icon to open a web help page relevant to the screen you are currently configuring.

Click this icon to open the setup wizard. The Prestige has a connection wizard and a bandwidth management wizard. Click this icon to view copyright and a link for related product information. Click this icon at any time to exit the web configurator. Select a number of seconds or None from the drop-down list box to refresh all screen statistics automatically at the end of every time interval or to not refresh the screen statistics.

Click this button to refresh the status screen statistics. The following table describes the labels shown in the Status screen. Table 3 Web Configurator Status Screen LABEL Device Information System Name Firmware Version This is the System Name you enter in the Maintenance, System, General screen. It is for identification purposes. This is the firmware version and the date created. DESCRIPTION 38 Chapter 2 Introducing the Web Configurator P-320W User's Guide Table 3 Web Configurator Status Screen LABEL WAN Information - WAN Type - IP Address - IP Subnet Mask - Gateway - DNS LAN Information - IP Address - IP Subnet Mask - DHCP WLAN Information - Name(SSID) - Channel - Security Mode System Status System Uptime Current Date/Time This is the total time the Prestige has been on. This field displays your Prestige's present date and time along with the difference from the Greenwich Mean Time (GMT) zone. The difference from GMT is based on the time zone. It is also adjusted for Daylight Saving Time if you set the Prestige to use it.



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Use this screen to view current DHCP client information.

Use this screen to view the wireless stations that are currently associated to the Prestige. Use this screen to view port status and packet specific statistics. This shows a descriptive name used to identify the Prestige in the wireless LAN. This shows the channel number which the Prestige uses over the wireless LAN.

This shows the level of wireless security the Prestige is using. This shows the LAN port's IP address. This shows the LAN port's subnet mask. This shows whether the Prestige acts as a DHCP server (Enabled) or not (Disabled). This shows the encapsulation method (and service type) the Prestige is using. This shows the WAN port's IP address.

This shows the WAN port's subnet mask. This shows the gateway IP address. This shows the IP address(es) of the DNS server(s). DESCRIPTION Summary DHCP Table Association List Statistics 2.4.

1 Navigation Panel After you enter the password, use the sub-menus on the navigation panel to configure Prestige features. The navigation The following table describes the sub-menus. Table 4 Screens Summary LINK Status TAB FUNCTION This screen shows the Prestige's general device and system status information. Use this screen to access the wizard, and summary statistics tables. Network Chapter 2 Introducing the Web Configurator 39 P-320W User's Guide Table 4 Screens Summary LINK Wireless LAN TAB General OTIST MAC Filter Advanced WAN Internet Connection Advanced Traffic Redirect LAN DHCP Server IP General Static DHCP Client List NAT General Port Forwarding Trigger Port Security Firewall General Services Management Static Route Remote MGMT Static Route Rules WWW SNMP Security UPnP Maintenance System General Dynamic DNS Time Setting Logs View Log Log Settings This screen contains administrative.

Use this screen to set up dynamic DNS. Use this screen to change your Prestige's time and date. Use this screen to view the logs for the categories that you selected. Use this screen to change your Prestige's log settings. General Use this screen to configure IP static routes. Use this screen to configure through which interface(s) and from which IP address(es) users can use HTTP to manage the Prestige. Use this screen to configure your Prestige's settings for Simple Network Management Protocol management. Use this screen to change your anti-probing settings. Use this screen to enable UPnP on the Prestige. Use this screen to activate/deactivate the firewall.

This screen shows a summary of the firewall rules, and allows you to edit/ add a firewall rule. FUNCTION Use this screen to configure wireless LAN. This screen allows you to assign wireless clients the Prestige's wireless security settings. Use the MAC filter screen to configure the Prestige to block access to devices or block the devices from accessing the Prestige. This screen allows you to configure other advanced WLAN properties. This screen allows you to configure ISP parameters, WAN IP address assignment and the WAN MAC address. Use this screen to configure DNS servers. Use this screen to configure your traffic redirect properties and parameters. Use this screen to configure LAN settings. Use this screen to enable the Prestige's DHCP server and to have DNS servers assigned by the DHCP server.

Use this screen to assign IP addresses on the LAN to specific individual computers based on their MAC addresses. Use this screen to view current DHCP client information and to always assign an IP address to a MAC address (and host name). Use this screen to enable NAT. Use this screen to configure servers behind the Prestige. Use this screen to change your Prestige's port triggering settings.

40 Chapter 2 Introducing the Web Configurator P-320W User's Guide Table 4 Screens Summary LINK Tools TAB Firmware Configuration Restart FUNCTION Use this screen to upload firmware to your Prestige. Use this screen to backup and restore the configuration or reset the factory defaults to your Prestige. This screen allows you to reboot the Prestige without turning the power off. 2.4.

2 Summary: DHCP Table DHCP (Dynamic Host Configuration Protocol, RFC 2131 and RFC 2132) allows individual clients to obtain TCP/IP configuration at start-up from a server. You can configure the Prestige as a DHCP server or disable it. When configured as a server, the Prestige provides the TCP/IP configuration for the clients. If DHCP service is disabled, you must have another DHCP server on your LAN, or else the computer must be manually configured. Click the DHCP Table (Detail) hyperlink in the Status screen. Read-only information here relates to your DHCP status. The DHCP table shows current DHCP client information (including IP Address, Host Name and MAC Address) of all network clients using the Prestige's DHCP server. Figure 9 Summary: DHCP Table The following table describes the labels in this screen. Table 5 Summary: DHCP Table LABEL # IP Address Host Name MAC Address DESCRIPTION This is the index number of the host computer. This field displays the IP address relative to the # field listed above.

This field displays the computer host name. This field shows the MAC address of the computer with the name in the Host Name field. Every Ethernet device has a unique MAC (Media Access Control) address. The MAC address is assigned at the factory and consists of six pairs of hexadecimal characters, for example, 00:A0:C5:00:00:02. Click Refresh to renew the screen. Refresh Chapter 2 Introducing the Web Configurator 41 P-320W User's Guide 2.4.3 Summary: Association List Click the Association List (Detail) hyperlink in the Status screen. View the wireless stations that are currently associated to the Prestige in the Association List screen. Figure 10 Summary: Association List The following table describes the labels in this screen.

Table 6 Summary: Wireless Association List LABEL # MAC Address Association Time Refresh DESCRIPTION This is the index number of an associated wireless station. This field displays the MAC address of an associated wireless station. This field displays the time a wireless station first associated with the Prestige. Click Refresh to redisplay the current screen. 2.

4.4 Summary: Packet Statistics Click the Statistics (Detail) hyperlink in the Status screen. Read-only information here includes packet specific statistics. Also provided are "system up time" and "poll interval(s)". The Poll Interval(s) field is configurable.

42 Chapter 2 Introducing the Web Configurator P-320W User's Guide Figure 11 Summary: Packet Statistics The following table describes the labels in this screen. Table 7 Summary: Packet Statistics LABEL Port TxPkts RxPkts System Up Time Poll Interval(s) Set Interval Stop DESCRIPTION This is the WAN, LAN or WLAN port. This is the number of transmitted packets on this port. This is the number of received packets on this port. This is the total time the Prestige has been on.



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Enter the time interval for refreshing statistics in this field. Click this button to apply the new poll interval you entered in the Poll Interval(s) field. Click Stop to stop refreshing statistics, click Stop. Chapter 2 Introducing the Web Configurator 43 P-320W User's Guide 44 Chapter 2 Introducing the Web Configurator P-320W User's Guide CHAPTER 3 Connection Wizard This chapter provides information on the Wizard setup screens in the web configurator. 3.

1 Wizard Setup The web configurator's Wizard setup helps you configure your device to access the Internet. Refer to your ISP (Internet Service Provider) checklist in the Quick Start Guide to know what to enter in each field. Leave a field blank if you don't have that information. 1 After you access the Prestige web configurator, click the Go to Wizard setup hyperlink. You can click the Go to Advanced setup hyperlink to skip this wizard setup and configure advanced features. Figure 12 Select a Mode 2 Read the on-screen information and click Next. Chapter 3 Connection Wizard 45 P-320W User's Guide Figure 13 Welcome to the Connection Wizard 3.2 Connection Wizard: STEP 1: System Information System Information contains administrative and system-related information. 3.2.

1 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 Prestige System Name. 3.

2.2 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 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. Click Next to configure the Prestige for Internet access. 46 Chapter 3 Connection Wizard P-320W User's Guide Figure 14 Connection Wizard: STEP 1: System Information The following table describes the labels in this screen. Table 8 Connection Wizard: STEP 1: System Information LABEL System Name DESCRIPTION System Name is a unique name to identify the Prestige in an Ethernet network. Enter a descriptive name. This name can be up to 30 alphanumeric characters long. Spaces are not allowed, but dashes "-" and underscores "_" are accepted.

Type the domain name (if you know it) here. If you leave this field blank, the ISP may assign a domain name via DHCP. The domain name entered by you is given priority over the ISP assigned domain name. Click Back to display the previous screen. Click Next to proceed to the next screen. Click Exit to close the wizard screen without saving. Domain Name Back Next Exit 3.3 Connection Wizard: STEP 2: Wireless LAN Set up your wireless LAN using the following screen. Chapter 3 Connection Wizard 47 P-320W User's Guide Figure 15 Connection Wizard: STEP 2: Wireless LAN The following table describes the labels in this screen. Table 9 Connection Wizard: STEP 2: Wireless LAN LABEL Name(SSID) DESCRIPTION Enter a descriptive name (up to 32 printable 7-bit ASCII characters) for the wireless LAN.

If you change this field on the Prestige, make sure all wireless stations use the same SSID in order to access the network. The range of radio frequencies used by IEEE 802.11b/g wireless devices is called a channel. Select a channel ID that is not already in use by a neighboring device. Select a Security level from the drop-down list box.

Choose Auto (WPA-PSK with self-generated key) to use WPA-PSK security with a default Pre-Shared Key and only if your wireless clients support WPA-PSK. If you choose this option, skip directly to Section 3.3.3 on page 51. Choose None to have no wireless LAN security configured.

If you do not enable any wireless security on your Prestige, your network is accessible to any wireless networking device that is within range. If you choose this option, skip directly to section 3.3.3. Choose Basic (WEP) security if you want to configure WEP Encryption parameters. If you choose this option, go directly to Section 3.3.1 on page 49. Choose Extend (WPA-PSK with customized key) security to configure a Pre-Shared Key. Choose this option only if your wireless clients support WPA-PSK or WPA2-PSK respectively.

If you choose this option, skip directly to Section 3.3.2 on page 50. Click Back to display the previous screen. Click Next to proceed to the next screen. Click Exit to close the wizard screen without saving. Channel Selection Security Back Next Exit 48 Chapter 3 Connection Wizard P-320W User's Guide Note: The wireless stations and Prestige must use the same SSID, channel ID and WEP encryption key (if WEP is enabled), WPA-PSK (if WPA-PSK is enabled) for wireless communication. 3.3.1 Basic(WEP) Security Choose Basic(WEP) to setup WEP Encryption parameters.

Figure 16 Basic(WEP) Security The following table describes the labels in this screen. Table 10 Basic(WEP) Security LABEL Passphrase Generate Clear WEP Encryption DESCRIPTION Type a Passphrase (up to 32 printable characters) and click Generate. The Prestige automatically generates four different WEP keys. After you enter the passphrase, click Generate to have the Prestige generate four different WEP keys automatically. Click Clear to discard the passphrase you configured in the Passphrase field and the WEP key(s) generated automatically or manually configured.

Select 64-bit WEP or 128-bit WEP to allow data encryption. ASCII Select this option in order to enter ASCII characters as the WEP keys. HEX Select this option to enter hexadecimal characters as the WEP keys. The preceding "0x" is entered automatically. Chapter 3 Connection Wizard 49 P-320W User's Guide Table 10 Basic(WEP) Security LABEL DESCRIPTION Key 1 to Key 4 The WEP keys are used to encrypt data.

Both the Prestige and the wireless stations must use the same WEP key for data transmission. If you chose 64-bit WEP, then enter any 5 ASCII characters or 10 hexadecimal characters ("0-9", "A-F"). If you chose 128-bit WEP, then enter 13 ASCII characters or 26 hexadecimal characters ("0-9", "A-F"). You must configure at least one key, only one key can be activated at any one time. The default key is key 1. Back Next Exit Click Back to display the previous screen. Click Next to proceed to the next screen.



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Click Exit to close the wizard screen without saving. 3.3.

2 **Extend(WPA-PSK) Security** Choose **Extend(WPA-PSK)** security in the **Wireless LAN setup** screen to set up a **PreShared Key**. **Figure 17 Extend(WPA-PSK) Security 50 Chapter 3 Connection Wizard P-320W User's Guide** The following table describes the labels in this screen. **Table 11 Extend(WPA-PSK) Security LABEL Pre-Shared Key Back Next Exit DESCRIPTION** Type from 8 to 63 case-sensitive ASCII characters. You can set up the most secure wireless connection by configuring WPA in the wireless LAN screens. You need to configure an authentication server to do this. Click **Back** to display the previous screen. Click **Next** to proceed to the next screen. Click **Exit** to close the wizard screen without saving. 3.3.

3 **OTIST** The following screen allows you to enable **Prestige One-Touch Intelligent Security Technology (OTIST)**. **One-Touch Intelligent Security Technology (OTIST)** allows your **Prestige** to assign wireless clients the **Prestige's SSID** and static **WEP** or **WPA-PSK** encryption settings. The wireless client must also support **OTIST** and have **OTIST** enabled. See **Section 4.5** on page 72 for more information.

Figure 18 OTIST Chapter 3 Connection Wizard 51 P-320W User's Guide The following table describes the labels in this screen. **Table 12 OTIST LABEL Do you want to enable OTIST? Setup Key DESCRIPTION** Select the **Yes** radio button and click **Next** to proceed with the setup wizard and enable **OTIST** only when you click **Finish** in the final wizard screen. Click **No** and then **Next** to proceed to the following screen. The default **OTIST Setup Key** is "01234567". This key can be changed in the web configurator.

Be sure to use the same **OTIST Setup Key** on the **Prestige** and wireless clients. Click **Back** to display the previous screen. Click **Next** to proceed to the next screen. Click **Exit** to close the wizard screen without saving. **Back Next Exit Refer** to the chapter on wireless LAN for more information. 3.4 **Connection Wizard: STEP 3: Internet Configuration** The **Prestige** offers three Internet connection types. They are **Ethernet**, **PPP over Ethernet** or **PPTP**. The wizard attempts to detect which WAN connection type you are using. If the wizard does not detect a connection type, you must select one from the drop-down list box.

Check with your ISP to make sure you use the correct type. **Figure 19 Connection Wizard: STEP 3: WAN Connection Type. 52 Chapter 3 Connection Wizard P-320W User's Guide** The following table describes the labels in this screen, **Table 13 Connection Wizard: STEP 3: WAN Connection Type CONNECTION TYPE Ethernet PPPoE PPTP DESCRIPTION** Select the **Ethernet** option when the WAN port is used as a regular **Ethernet**. Select the **PPP over Ethernet** option for a dial-up connection. If your ISP gave you a an IP address and/or subnet mask, then select **PPTP**. Select the **PPTP** option for a dial-up connection.

3.4.1 **Ethernet Connection Type** Choose **Ethernet** when the WAN port is used as a regular **Ethernet**. **Figure 20 Ethernet Connection Type 3.**

4.2 **PPPoE Connection Type** **Point-to-Point Protocol over Ethernet (PPPoE)** functions as a dial-up connection. **PPPoE** is an **IETF (Internet Engineering Task Force)** standard specifying how a host personal computer interacts with a broadband modem (for example **DSL**, **cable**, **wireless**, etc.) to achieve access to high-speed data networks. For the service provider, **PPPoE** offers an access and authentication method that works with existing access control systems (for instance, **RADIUS**).

Chapter 3 Connection Wizard 53 P-320W User's Guide One of the benefits of **PPPoE** is the ability to let end users access one of multiple network services, a function known as **dynamic service selection**. This enables the service provider to easily create and offer new IP services for specific users. Operationally, **PPPoE** saves significant effort for both the subscriber and the ISP/carrier, as it requires no specific configuration of the broadband modem at the subscriber's site. By implementing **PPPoE** directly on the **Prestige** (rather than individual computers), the computers on the LAN do not need **PPPoE** software installed, since the **Prestige** does that part of the task. Furthermore, with **NAT**, all of the LAN's computers will have Internet access.

Refer to the appendix for more information on **PPPoE**. **Figure 21 PPPoE Connection Type** The following table describes the labels in this screen. **Table 14 PPPoE Connection Type LABEL DESCRIPTION ISP Parameter for Internet Access Service Name User Name Password Next Back Exit Type** the name of your service provider. Type the user name given to you by your ISP. Type the password associated with the user name above. Click **Next** to continue. Click **Back** to return to the previous screen. Click **Exit** to close the wizard screen without saving. 54 **Chapter 3 Connection Wizard P-320W User's Guide 3.4.**

3 **PPTP Connection Type** **Point-to-Point Tunneling Protocol (PPTP)** is a network protocol that enables transfers of data from a remote client to a private server, creating a **Virtual Private Network (VPN)** using **TCP/ IP-based** networks. **PPTP** supports on-demand, multi-protocol, and virtual private networking over public networks, such as the Internet. Refer to the appendix for more information on **PPTP**. Note: The **Prestige** supports one **PPTP** server connection at any given time. **Figure 22 PPTP Connection Type** The following table describes the fields in this screen **Table 15 PPTP Connection Type LABEL DESCRIPTION ISP Parameters for Internet Access User Name Password PPTP Configuration Get automatically from ISP Use fixed IP address My IP Address** Select this radio button if your ISP did not assign you a fixed IP address. Select this radio button, provided by your ISP to give the **Prestige** a fixed, unique IP address. Type the (static) IP address assigned to you by your ISP. Type the user name given to you by your ISP. Type the password associated with the User Name above. **Chapter 3 Connection Wizard 55 P-320W User's Guide Table 15 PPTP Connection Type LABEL My IP Subnet Mask Server IP Address Connection ID/ Name Back Next Exit DESCRIPTION** Type the subnet mask assigned to you by your ISP (if given).

Type the IP address of the **PPTP** server. Enter the connection ID or connection name in this field. It must follow the "c:id" and "n:name" format. For example, C:12 or N:My ISP. This field is optional and depends on the requirements of your ISP.

Click **Back** to return to the previous screen. Click **Next** to continue. Click **Exit** to close the wizard screen without saving. 3.4.

4 **Your IP Address** The following wizard screen allows you to assign a fixed IP address or give the **Prestige** an automatically assigned IP address depending on your ISP. **Figure 23 Your IP Address 56 Chapter 3 Connection Wizard P-320W User's Guide** The following table describes the labels in this screen **Table 16 Your IP Address LABEL Get automatically from ISP Use fixed IP address provided by your ISP Back Next Exit DESCRIPTION** Select this option If your ISP did not assign you a fixed IP address.



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