



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ZYXEL P-660HW. You'll find the answers to all your questions on the ZYXEL P-660HW 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-660HW
User guide ZYXEL P-660HW
Operating instructions ZYXEL P-660HW
Instructions for use ZYXEL P-660HW
Instruction manual ZYXEL P-660HW

P-660HW-D Series

802.11g Wireless ADSL 2+ 4-port Gateway

User's Guide

Version 3.40
Edition 1
3/2006

ZyXEL



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Manual abstract:

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However, there is no guarantee that interference will not occur in a particular installation. 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. This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. FCC Caution Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. IMPORTANT NOTE: FCC Radiation Exposure Statement This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. 3 Federal Communications Commission (FCC) Interference Statement P-660HW-D Series User's Guide This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

ZyXEL Communications Corporation declared that ZyXEL device is limited in CH1~11 from 2400 to 2483.5 MHz by specified firmware controlled in USA. Certifications 1 Go to www.zyxel.com 2 Select your product from the drop-down list box on the ZyXEL home page to go to that product's page. 3 Select the certification you wish to view from this page. Federal Communications Commission (FCC) Interference Statement 4 P-660HW-D Series User's Guide Safety Warnings For your safety, be sure to read and follow all warning notices and instructions. · To reduce the risk of fire, use only No. 26 AWG (American Wire Gauge) or larger telecommunication line cord. · Do NOT open the device or unit.

Opening or removing covers can expose you to dangerous high voltage points or other risks. ONLY qualified service personnel can service the device. Please contact your vendor for further information. · 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.

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Emilli Plater 53 00-113 Warszawa Poland ZyXEL Russia Ostrovityanova 37a Str. Moscow, 117279 Russia ZyXEL Communications Alejandro Villegas 33 1º, 28043 Madrid Spain ZyXEL Communications A/S Sjöporten 4, 41764 Göteborg Sweden ZyXEL Ukraine 13, Pimonenko Str. Kiev, 04050 Ukraine ZyXEL Communications UK Ltd., 11 The Courtyard, Eastern Road, Bracknell, Berkshire, RG12 2XB, United Kingdom (UK) www.zyxel.ru www.zyxel.es SWEDEN www.zyxel.se support@ua.

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com www.zyxel.co.uk ftp.zyxel.co.uk A. "+" is the (prefix) number you enter to make an international telephone call. Customer Support 8 P-660HW-D Series User's Guide 9 Customer Support P-660HW-D Series User's Guide Table of Contents Copyright ..

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P-660HW comes with built-in IEEE 802.11g wireless capability allowing wireless connectivity. P-660HW-D has a 4-port switch that allows you to connect up to 4 computers to the P-660HW-D without purchasing a switch/hub. 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.zyxel.com.



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us.zyxel.com for North American products. About This User's Guide This manual is designed to guide you through the configuration of your P-660HW-D for its various applications.

The web configurator parts of this guide contain background information on features configurable by web configurator. Note: Use the web configurator or command interpreter interface to configure your P660HW-D. Not all features can be configured through all interfaces. Syntax Conventions · "Enter" means for you to type one or more characters. "Select" or "Choose" means for you to use one predefined choice.

· Mouse action sequences are denoted using a right angle bracket (>). For example, "In Windows, click Start > Settings > Control Panel" means first click the Start button, then point your mouse pointer to Settings and then click Control Panel. · "e.g.," is a shorthand for "for instance", and "i.

e.," means "that is" or "in other words". · The P-660HW-D series may be referred to as the "ZyXEL device" in this User's Guide. 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 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.

Preface 30 P-660HW-D Series User's Guide 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. Graphics Icons Key ZyXEL device Computer Notebook computer Server DSLAM Firewall Telephone Switch Router Wireless Signal 31 Preface P-660HW-D Series User's Guide CHAPTER 1 Getting To Know Your P-660HWD This chapter describes the key features and applications of your ZyXEL device. 1.1 Introducing the P-660HW-D The ZyXEL device is an ADSL2+ gateway that allows super-fast, secure Internet access over analog (POTS) or digital (ISDN) telephone lines (depending on your model). In the ZyXEL device product name, "H" denotes an integrated 4-port switch (hub) and "W" denotes an included wireless LAN card that provides wireless connectivity.

Models ending in "1", for example P-660HW-D1, denote a device that works over the analog telephone system, POTS (Plain Old Telephone Service). Models ending in "3" denote a device that works over ISDN (Integrated Services Digital Network). Models ending in "7" denote a device that works over T-ISDN (UR-2). Note: Only use firmware for your ZyXEL device's specific model. Refer to the label on the bottom of your ZyXEL device.

The DSL RJ-11 (ADSL over POTS models) or RJ-45 (ADSL over ISDN models) connects to your ADSL-enabled telephone line. The ZyXEL device is compatible with the ADSL/ADSL2/ADSL2+ standards. Maximum data rates attainable by the ZyXEL device for each standard are shown in the next table.

Table 1 ADSL Standards DATA RATE STANDARD ADSL ADSL2 ADSL2+ UPSTREAM 832 kbps 3.5Mbps 3.

5Mbps DOWNSTREAM 8Mbps 12Mbps 24Mbps Note: The standard your ISP supports determines the maximum upstream and downstream speeds attainable.

Actual speeds attained also depend on the distance from your ISP, line quality, etc. Chapter 1 Getting To Know Your P-660HW-D 32 P-660HW-D Series User's Guide 1.2 Features High Speed Internet Access Your ZyXEL device can support downstream transmission rates of up to 24Mbps and upstream transmission rates of 3.5Mbps. Actual speeds attained depend on the ADSL service you subscribed to, distance from your ISP, line quality, etc. Zero

Configuration Internet Access Once you connect and turn on the ZyXEL device, it automatically detects the Internet connection settings (such as the VCI/VPI numbers and the encapsulation method) from the ISP and makes the necessary configuration changes. In cases where additional account information (such as an Internet account user name and password) is required or the ZyXEL device cannot connect to the ISP, you will be redirected to web screen(s) for information input or troubleshooting. Any IP The Any IP feature allows a computer to access the Internet and the ZyXEL device without changing the network settings (such as IP address and subnet mask) of the computer, when the IP addresses of the computer and the ZyXEL device are not in the same subnet.

Firewall The ZyXEL device 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 ZyXEL device firewall supports TCP/UDP inspection, DoS detection and prevention, real time alerts, reports and logs. Content Filtering Content filtering allows you to block access to forbidden Internet web sites, schedule when the ZyXEL device should perform the filtering and give trusted LAN IP addresses unfiltered Internet access. Traffic Redirect Traffic redirect forwards WAN traffic to a backup gateway when the ZyXEL device cannot connect to the Internet, thus acting

as an auxiliary if your regular WAN connection fails. Media Bandwidth Management ZyXEL's Media Bandwidth Management allows you to specify bandwidth classes based on an application and/or subnet. You can allocate specific amounts of bandwidth capacity (bandwidth budgets) to different bandwidth classes. 33 Chapter 1 Getting To Know Your P-660HW-D P-660HW-D Series User's Guide Universal Plug and Play (UPnP) Using the standard

TCP/IP protocol, the ZyXEL device 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 (RFC2516) PPPoE (Point-to-Point Protocol over Ethernet) emulates a dial-up connection. It allows your ISP to use their existing network configuration with newer broadband technologies such as ADSL. The PPPoE driver on the ZyXEL device is transparent to the computers on the LAN, which see only Ethernet and are not aware of PPPoE thus saving you from having to manage PPPoE clients on individual computers. The ZyXEL device also includes PPPoE idle time-out (the PPPoE connection terminates after a period of no traffic that you configure) and PPPoE Dial-on-

Demand (the PPPoE connection is brought up only when an Internet access request is made). 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).



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Dynamic DNS Support With Dynamic DNS 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. DHCP 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 ZyXEL device has built-in DHCP server capability enabled by default. It can assign IP addresses, an IP default gateway and DNS servers to DHCP clients. The ZyXEL device 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. IP Alias IP Alias allows you to partition a physical network into logical networks over the same Ethernet interface. The ZyXEL device supports three logical LAN interfaces via its single physical Ethernet interface with the ZyXEL device itself as the gateway for each LAN network.

Chapter 1 Getting To Know Your P-660HW-D 34 P-660HW-D Series User's Guide Housing Your ZyXEL device's compact and ventilated housing minimizes space requirements making it easy to position anywhere in your busy office. 4-port Switch A combination of switch and router makes your ZyXEL device a cost-effective and viable network solution. You can connect up to four computers to the ZyXEL device without the cost of a hub. Use a hub to add more than four computers to your LAN. 1.2.1 Wireless Features Wireless LAN The ZyXEL device 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 ZyXEL device 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. WPA2 WPA 2 (IEEE 802.11i) is a wireless security standard that defines stronger encryption, authentication and key management than WPA. Both WPA and WPA2 improve data encryption by using Temporal Key Integrity Protocol (TKIP), Message Integrity Check (MIC) and IEEE 802.1x.

In addition to TKIP, WPA2 also uses Advanced Encryption Standard (AES) in the Counter mode with Cipher block chaining Message authentication code Protocol (CCMP) to offer stronger encryption. Antenna The ZyXEL device is equipped with one 3dBi fixed antenna to provide clear radio signal between the wireless stations and the access points. WEP Encryption WEP (Wired Equivalent Privacy) encrypts data frames before transmitting over the wireless network to help keep network communications private. 35 Chapter 1 Getting To Know Your P-660HW-D P-660HW-D Series User's Guide Output Power Management Output power management is the ability to set the level of output power. There may be interference or difficulty with channel assignment when there is a high density of APs within a coverage area.

In this case you can lower the output power of each access point, thus enabling you to place access points closer together. Wireless LAN MAC Address Filtering Your ZyXEL device can check the MAC addresses of wireless stations against a list of allowed or denied MAC addresses. 1.3 Applications for the ZyXEL device Here are some example uses for which the ZyXEL device is well suited. 1.

3.1 Protected Internet Access The ZyXEL device is the ideal high-speed Internet access solution. It is compatible with all major ADSL DSLAM (Digital Subscriber Line Access Multiplexer) providers and supports the ADSL standards as shown in Table 1 on page 32. In addition, the ZyXEL device allows wireless clients access to your network resources. The ZyXEL device provides protection from attacks by Internet hackers. By default, the firewall blocks all incoming traffic from the WAN. The firewall supports TCP/UDP inspection and DoS (Denial of Services) detection and prevention, as well as real time alerts, reports and logs. Figure 1 Protected Internet Access Applications 1.3.2 LAN to LAN Application You can use the ZyXEL device to connect two geographically dispersed networks over the ADSL line.

A typical LAN-to-LAN application example is shown as follows. Chapter 1 Getting To Know Your P-660HW-D 36 P-660HW-D Series User's Guide Figure 2 LAN-to-LAN Application Example 1.4 Front Panel LEDs The following figure shows the front panel LEDs. Figure 3 Front Panel The following table describes the LEDs. Table 2 Front Panel LEDs LED POWER COLOR Green STATUS On Blinking Red ETHERNET Green On Off On Blinking Amber On Blinking Off WLAN Green On Blinking Off DESCRIPTION The ZyXEL device is receiving power and functioning properly. The ZyXEL device is rebooting or performing diagnostics. Power to the ZyXEL device is too low. The system is not ready or has malfunctioned. The ZyXEL device has a successful 10Mb Ethernet connection. The ZyXEL device is sending/receiving data.

The ZyXEL device has a successful 100Mb Ethernet connection. The ZyXEL device is sending/receiving data. The LAN is not connected. The ZyXEL device is ready, but is not sending/receiving data through the wireless LAN. The ZyXEL device is sending/receiving data through the wireless LAN.

The wireless LAN is not ready or has failed. 37 Chapter 1 Getting To Know Your P-660HW-D P-660HW-D Series User's Guide Table 2 Front Panel LEDs (continued) LED DSL COLOR Green STATUS On Blinking Off INTERNET Green On Blinking Off DESCRIPTION The DSL line is up. The ZyXEL device is initializing the DSL line. The DSL line is down. The Internet connection is up.

The ZyXEL device is sending/receiving data. The Internet connection is down. 1.5 Hardware Connection Refer to the Quick Start Guide for information on hardware connection. Chapter 1 Getting To Know Your P-660HW-D 38 P-660HW-D Series User's Guide 39 Chapter 1 Getting To Know Your P-660HW-D P-660HW-D Series User's Guide CHAPTER 2 Introducing the Web Configurator This chapter describes how to access and navigate the web configurator. 2.1

Web Configurator Overview The web configurator is an HTML-based management interface that allows easy ZyXEL device 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 chapter on troubleshooting if you need to make sure these functions are allowed in Internet Explorer.



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2.2 Accessing the Web Configurator Note: Even though you can connect to the ZyXEL device wirelessly, it is recommended that you connect your computer to a LAN port for initial configuration. 1 Make sure your ZyXEL device hardware is properly connected (refer to the Quick Start Guide). 2 Prepare your computer/computer network to connect to the ZyXEL device (refer to the Quick Start Guide).

3 Launch your web browser. 4 Type "192.168.1.1" as the URL.

5 A window displays as shown. Enter the default admin password 1234 to configure the wizards and the advanced features or enter the default user password user to view the Chapter 2 Introducing the Web Configurator 40 P-660HW-D Series User's Guide status only. Click Login to proceed to a screen asking you to change your password or click Cancel to revert to the default password. Figure 4 Password Screen 6 If you entered the user password, skip the next two steps and refer to Section 2.4.

2 on page 45 for more information about the Status screen. If you entered the admin password, it is highly recommended you change the default admin password! Enter a new password between 1 and 30 characters, retype it to confirm and click Apply; alternatively click Ignore to proceed to the main menu if you do not want to change the password now. Note: If you do not change the password at least once, the following screen appears every time you log in with the admin password. Figure 5 Change Password at Login 7 Select Go to Wizard setup and click Apply to display the wizard main screen. Otherwise, select Go to Advanced setup and click Apply to display the Status screen. 41 Chapter 2 Introducing the Web Configurator P-660HW-D Series User's Guide Figure 6 Select a 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 ZyXEL device if this happens to you. 2.3 Resetting the ZyXEL device If you forget your password or cannot access the web configurator, you will need to use the RESET button at the back of the ZyXEL device 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 Using the Reset Button 1 Make sure the POWER LED is on (not blinking). 2 Press the RESET button for ten seconds or until the POWER LED begins to blink and then release it. When the POWER LED begins to blink, the defaults have been restored and the ZyXEL device restarts. 2.4 Navigating the Web

Configurator We use the P-660HW-D1 web screens in this guide as an example. Screens vary slightly for different ZyXEL device models. 2.4.

1 Navigation Panel After you enter the admin password, use the sub-menus on the navigation panel to configure ZyXEL device features. The following table describes the sub-menus. Chapter 2 Introducing the Web Configurator 42 P-660HW-D Series User's Guide Figure 7 Web Configurator: Main Screen Click the Logout icon at any time to exit the web configurator. Use submenus to configure ZyXEL device features. Note: Click the icon (located in the top right corner of most screens) to view embedded help.

Table 3 Web Configurator Screens Summary LINK/ICON Wizard SUB-LINK INTERNET/ WIRELESS SETUP BANDWIDTH MANAGEMENT SETUP Logout Status FUNCTION Use these screens for initial configuration including general setup, ISP parameters for Internet Access and WAN IP/DNS Server/MAC address assignment. Use these screens to limit bandwidth usage by application or packet type. Click this icon to exit the web configurator. This screen shows the ZyXEL device's general device, system and interface status information. Use this screen to access the summary statistics tables.

Internet Connection This screen allows you to configure ISP parameters, WAN IP address assignment, DNS servers and other advanced properties. Network WAN More Connections Use this screen to view and configure other connections for placing calls to another remote gateway. WAN Backup Setup Use this screen to configure your traffic redirect properties and WAN backup settings. 43 Chapter 2 Introducing the Web Configurator P-660HW-D Series User's Guide Table 3 Web Configurator Screens Summary (continued) LINK/ICON LAN SUB-LINK IP DHCP Setup Client List FUNCTION Use this screen to configure LAN TCP/IP settings, enable Any IP and other advanced properties. Use this screen to configure LAN DHCP settings. 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 partition your LAN interface into subnets. Use this screen to configure the wireless LAN settings and WLAN authentication/security settings. This screen allows you to assign wireless clients the ZyXEL device's wireless security settings. Use this screen to configure the ZyXEL device to block access to devices or block the devices from accessing the ZyXEL device.

WMM QoS allows you to prioritize wireless traffic according to the delivery requirements of the individual and applications. Use this screen to enable NAT.

Use this screen to configure servers behind the ZyXEL device. Use this screen to configure network address translation mapping rules. Use this screen to activate/deactivate the firewall and the direction of network traffic to which to apply the rule. This screen shows a summary of the firewall rules, and allows you to edit/add a firewall rule. Use this screen to change your anti-probing settings. Use this screen to configure the threshold for DoS attacks. Use this screen to block sites containing certain keywords in the URL. Use this screen to set the days and times for the ZyXEL device to perform content filtering. Use this screen to exclude a range of users on the LAN from content filtering on your ZyXEL device. Use this screen to configure IP static routes. Summary Rule Setup Monitor Dynamic DNS Use this screen to enable bandwidth management on an interface. Use this screen to define a bandwidth rule. Use this screen to view the ZyXEL device's bandwidth usage and allotments.

Use this screen to set up dynamic DNS. IP Alias Wireless LAN General OTIST MAC Filter QoS NAT General Port Forwarding Address Mapping Security Firewall General Rules Anti Probing Threshold Content Filter Keyword Schedule Trusted Advanced Static Route Bandwidth MGMT Chapter 2 Introducing the Web Configurator 44 P-660HW-D Series User's Guide Table 3 Web Configurator Screens Summary (continued) LINK/ICON Remote MGMT SUB-LINK WWW FUNCTION Use this screen to configure through which interface(s) and from which IP address(es) users can use HTTPS or HTTP to manage the ZyXEL device. Use this screen to configure through which interface(s) and from which IP address(es) users can use Telnet to manage the ZyXEL device. Use this screen to configure through which interface(s) and from which IP address(es) users can use FTP to access the ZyXEL device.



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Use this screen to configure your ZyXEL device's settings for Simple Network Management Protocol management.

Use this screen to configure through which interface(s) and from which IP address(es) users can send DNS queries to the ZyXEL device. Use this screen to change your anti-probing settings. Use this screen to enable UPnP on the ZyXEL device. General Time Setting Logs View Log Settings Tools Firmware Configuration Restart Diagnostic General DSL Line This screen contains administrative and system-related information and also allows you to change your password. Use this screen to change your ZyXEL device's time and date. Use this screen to view the logs for the categories that you selected. Use this screen to change your ZyXEL device's log settings. Use this screen to upload firmware to your ZyXEL device. Use this screen to backup and restore the configuration or reset the factory defaults to your ZyXEL device. This screen allows you to reboot the ZyXEL device without turning the power off.

These screens display information to help you identify problems with the ZyXEL device general connection. These screens display information to help you identify problems with the DSL line. Telnet FTP SNMP DNS ICMP UPnP Maintenance System 2.4.2 Status Screen The following summarizes how to navigate the web configurator from the Status screen. Some fields or links are not available if you entered the user password in the login password screen (see Figure 4 on page 41). 45 Chapter 2 Introducing the Web Configurator P-660HW-D Series User's Guide Figure 8 Status Screen The following table describes the labels shown in the Status screen. Table 4 Status Screen LABEL Refresh Interval DESCRIPTION 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. This is the System Name you enter in the Maintenance > System > General screen.

It is for identification purposes. This is your ZyXEL device's model name. This is the MAC (Media Access Control) or Ethernet address unique to your ZyXEL device. This is the ZyNOS Firmware version and the date created. ZyNOS is ZyXEL's proprietary Network Operating System design.

This is the standard that your ZyXEL device is using. This is the WAN port IP address. This is the WAN port IP subnet mask. This is the IP address of the default gateway, if applicable. This is the Virtual Path Identifier and Virtual Channel Identifier that you entered in the wizard or WAN screen.

Apply Device Information Host Name Model Number MAC Address ZyNOS Firmware Version WAN Information DSL Mode IP Address IP Subnet Mask Default Gateway VPI/VCI Chapter 2 Introducing the Web Configurator 46 P-660HW-D Series User's Guide Table 4 Status Screen LABEL LAN Information IP Address IP Subnet Mask DHCP WLAN Information SSID Channel WEP Security Firewall Content Filter System Status System Uptime System Mode CPU Usage This is the total time the ZyXEL device has been on. This displays whether the ZyXEL device is functioning as a router or a bridge. This number shows how many kilobytes of the heap memory the ZyXEL device is using. Heap memory refers to the memory that is not used by ZyNOS (ZyXEL Network Operating System) and is thus available for running processes like NAT, VPN and the firewall. The bar displays what percent of the ZyXEL device's heap memory is in use. The bar turns from green to red when the maximum is being approached. This number shows the ZyXEL device's total heap memory (in kilobytes). The bar displays what percent of the ZyXEL device's heap memory is in use. The bar turns from green to red when the maximum is being approached. This displays the ZyXEL device port types.

The port types are: DSL, LAN and WLAN. This field displays Down (line is down), Up (line is up or connected) if you're using Ethernet encapsulation and Down (line is down), Up (line is up or connected), Idle (line (ppp) idle), Dial (starting to trigger a call) and Drop (dropping a call) if you're using PPPoE encapsulation. For the WLAN port, it displays Active when WLAN is enabled or Inactive when WLAN is disabled. For the LAN ports, this displays the port speed and duplex setting. For the WAN port, it displays the downstream and upstream transmission rate. For the WLAN port, it displays the transmission rate when WLAN is enabled or N/A when WLAN is disabled. Use this screen to view a list of IP addresses and MAC addresses of computers, which are not in the same subnet as the ZyXEL device. This screen displays the MAC address(es) of the wireless stations that are currently associating with the ZyXEL device. Use this screen to view the ZyXEL device's bandwidth usage and allotments. Use this screen to view port status and packet specific statistics.

Current Date/Time This field displays your ZyXEL device's present date and time. This displays whether or not the ZyXEL device's firewall is activated. This displays whether or not the ZyXEL device's content filtering is activated. This is the descriptive name used to identify the ZyXEL device in the wireless LAN.

This is the channel number used by the ZyXEL device now.

This displays the status of WEP data encryption. This is the LAN port IP address. This is the LAN port IP subnet mask. This is the WAN port DHCP role - Server, Relay or None. DESCRIPTION Memory Usage Interface Status Interface Status Rate Summary Any IP Table WLAN Status Bandwidth Status Packet Statistics 47 Chapter 2 Introducing the Web Configurator P-660HW-D Series User's Guide 2.

4.3 Status: Any IP Table Click the Any IP Table hyperlink in the Status screen. The Any IP table shows current readonly information (including the IP address and the MAC address) of all network devices that use the Any IP feature to communicate with the ZyXEL device. Figure 9 Status: Any IP Table The following table describes the labels in this screen. Table 5 Status: Any IP Table LABEL # IP Address MAC Address DESCRIPTION This is the index number of the host computer. This field displays the IP address of the network device. This field displays the MAC (Media Access Control) address of the computer with the displayed IP address. Every Ethernet device has a unique MAC 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 update this screen.

Refresh 2.4.4 Status: WLAN Status Click the WLAN Status hyperlink in the Status screen to view the wireless stations that are currently associated to the ZyXEL device. Figure 10 Status: WLAN Status Chapter 2 Introducing the Web Configurator 48 P-660HW-D Series User's Guide The following table describes the labels in this screen. Table 6 Status: WLAN Status LABEL # MAC Address Association Time Refresh DESCRIPTION This is the index number of an associated wireless station.



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