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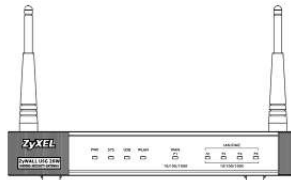
You can read the recommendations in the user guide, the technical guide or the installation guide for ZYXEL ZYWALL USG 20. You'll find the answers to all your questions on the ZYXEL ZYWALL USG 20 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ZYXEL ZYWALL USG 20
User guide ZYXEL ZYWALL USG 20
Operating instructions ZYXEL ZYWALL USG 20
Instructions for use ZYXEL ZYWALL USG 20
Instruction manual ZYXEL ZYWALL USG 20

ZyWALL USG 20/20W

Unified Security Gateway

User's Guide



Default Login Details

LAN Port	P2, P3
IP Address	https://192.168.1.1
User Name	admin
Password	1234

Version 2.21
Edition 4, 4/2011

www.zyxel.com

ZyXEL

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[You're reading an excerpt. Click here to read official ZYXEL ZYWALL USG 20 user guide](http://yourpdfguides.com/dref/4251550)
<http://yourpdfguides.com/dref/4251550>

Manual abstract:

· It is highly recommended you read Chapter 7 on page 107 for ZyWALL application examples. · Subsequent chapters are arranged by menu item as defined in the Web Configurator. Read each chapter carefully for detailed information on that menu item. · To find specific information in this guide, use the Contents Overview, the Table of Contents, the Index, or search the PDF file. E-mail techwriters@zyxel.com.tw if you cannot find the information you require. Related Documentation · Quick Start Guide The Quick Start Guide is designed to show you how to make the ZyWALL hardware connections and access the Web Configurator wizards. (See the wizard real time help for information on configuring each screen.) It also contains a connection diagram and package contents list.

· CLI Reference Guide The CLI Reference Guide explains how to use the Command-Line Interface (CLI) to configure the ZyWALL. Note: It is recommended you use the Web Configurator to configure the ZyWALL. ZyWALL USG 20/20W User's Guide 3 About This User's Guide · Web Configurator Online Help Click the help icon in any screen for help in configuring that screen and supplementary information. · ZyXEL Web Site Please refer to www.zyxel.com for additional support documentation and product certifications. User Guide Feedback Help us help you. Send all User Guide-related comments, questions or suggestions for improvement to the following address, or use e-mail instead. Thank you! The Technical Writing Team, ZyXEL Communications Corp., 6 Innovation Road II, Science-Based Industrial Park, Hsinchu, 300, Taiwan.

E-mail: techwriters@zyxel.com.tw Need More Help? More help is available at www.zyxel.com. · Download Library Search for the latest product updates and documentation from this link. Read the Tech Doc Overview to find out how to efficiently use the User Guide, Quick Start Guide and Command Line Interface Reference Guide in order to better understand how to use your product. · Knowledge Base If you have a specific question about your product, the answer may be here. This is a collection of answers to previously asked questions about ZyXEL products. 4 ZyWALL USG 20/20W User's Guide About This User's Guide · Forum This contains discussions on ZyXEL products.

Learn from others who use ZyXEL products and share your experiences as well. Customer Support Should problems arise that cannot be solved by the methods listed above, you should contact your vendor. If you cannot contact your vendor, then contact a ZyXEL office for the region in which you bought the device. See http://www.zyxel.com/web/contact_us.php for contact information. Please have the following information ready when you contact an office. · Product model and serial number. · Warranty Information.

· Date that you received your device. · Brief description of the problem and the steps you took to solve it. Disclaimer Graphics in this book may differ slightly from the product due to differences in operating systems, operating system versions, or if you installed updated firmware/software for your device. Every effort has been made to ensure that the information in this manual is accurate. ZyWALL USG 20/20W User's Guide 5 Document Conventions Document Conventions Warnings and Notes These are how warnings and notes are shown in this User's Guide.

Warnings tell you about things that could harm you or your device. Note: Notes tell you other important information (for example, other things you may need to configure or helpful tips) or recommendations. Syntax Conventions · The ZyWALL may be referred to as the "ZyWALL", the "device", the "system" or the "product" in this User's Guide. · Product labels, screen names, field labels and field choices are all in bold font. · A key stroke is denoted by square brackets and uppercase text, for example, [ENTER] means the "enter" or "return" key on your keyboard.

· "Enter" means for you to type one or more characters and then press the [ENTER] key. "Select" or "choose" means for you to use one of the predefined choices. · A right angle bracket (>) within a screen name denotes a mouse click. For example, Maintenance > Log > Log Setting means you first click Maintenance in the navigation panel, then the Log sub menu and finally the Log Setting tab to get to that screen. · Units of measurement may denote the "metric" value or the "scientific" value. For example, "k" for kilo may denote "1000" or "1024", "M" for mega may denote "1000000" or "1048576" and so on. · "e.g.," is a shorthand for "for instance", and "i.e.

," means "that is" or "in other words". 6 ZyWALL USG 20/20W User's Guide Document Conventions Icons Used in Figures Figures in this User's Guide may use the following generic icons. The ZyWALL icon is not an exact representation of your device. ZyWALL Computer Notebook computer Server Firewall Telephone Switch Router ZyWALL USG 20/20W User's Guide 7 Safety Warnings Safety Warnings · Do NOT use this product near water, for example, in a wet basement or near a swimming pool. · Do NOT expose your device to dampness, dust or corrosive liquids. · Do NOT store things on the device. · Do NOT install, use, or service this device during a thunderstorm. There is a remote risk of electric shock from lightning. · Connect ONLY suitable accessories to the device. · Do NOT open the device or unit.

Opening or removing covers can expose you to dangerous high voltage points or other risks. ONLY qualified service personnel should service or disassemble this device. Please contact your vendor for further information. · Make sure to connect the cables to the correct ports. · Place connecting cables carefully so that no one will step on them or stumble over them.

· Always disconnect all cables from this device before servicing or disassembling. · Use ONLY an appropriate power adaptor or cord for your device. Connect it to the right supply voltage (for example, 110V AC in North America or 230V AC in Europe). · Do NOT remove the plug and connect it to a power outlet by itself; always attach the plug to the power adaptor first before connecting it to a power outlet. · Do NOT allow anything to rest on the power adaptor or cord and do NOT place the product where anyone can walk on the power adaptor or cord.

· Do NOT use the device if the power adaptor or cord is damaged as it might cause electrocution. · If the power adaptor or cord is damaged, remove it from the device and the power source. · Do NOT attempt to repair the power adaptor or cord.



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Contact your local vendor to order a new one. · Do not use the device outside, and make sure all the connections are indoors. There is a remote risk of electric shock from lightning. · CAUTION: RISK OF EXPLOSION IF BATTERY (on the motherboard) IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS. Dispose them at the applicable collection point for the recycling of electrical and electronic equipment. For detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the store where you purchased the product.

· Do NOT obstruct the device ventilation slots, as insufficient airflow may harm your device. · Antenna Warning! This device meets ETSI and FCC certification requirements when using the included antenna(s). Only use the included antenna(s). · If you wall mount your device, make sure that no electrical lines, gas or water pipes will be damaged. Your product is marked with this symbol, which is known as the WEEE mark. WEEE stands for Waste Electronics and Electrical Equipment. It means that used electrical and electronic products should not be mixed with general waste. Used electrical and electronic equipment should be treated separately. 8 ZyWALL USG 20/20W User's Guide Contents Overview Contents Overview User's Guide ..

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

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

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

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

.....

. 27 Introducing the ZyWALL

.....
.....

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

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

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

..... 29 Features and Applications .

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

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

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

.....

.... 37 Web Configurator .

.....
.....

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

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

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

.....
... 43 Installation Setup Wizard ...

.....
.....

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

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

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

59 Quick Setup

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

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

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

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

..... 69 Configuration Basics ...

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

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

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

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

. 87 Tutorials

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

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

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

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

.....

.. 107 Technical Reference ...

.....
.....

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

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

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

163 Dashboard

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

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

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

.....

.....
.....
.....
..... 165 Monitor ...

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

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

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

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

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

177 Registration

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

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

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

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

.....211 Interfaces ...

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

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

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

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

.....

..... *217 Trunks*

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

.....

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

.....

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

.....

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

.....

.....

.... *289 Policy and Static Routes* .

.....

.....

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

.....

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

.....

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

..... *297 Routing Protocols*

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

.....

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

.....

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

.....

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

. *313 Zones*

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

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

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

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

.....
.....

. 327 DDNS

.....

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

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

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

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

331 NAT

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

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

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

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

.....
.....

... 337 HTTP Redirect ..

.....

.....
.....

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

..... 725 Troubleshooting ..

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

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

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

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

..... 727 Product Specifications ...

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

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

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

.....
.....

. 741 10 ZyWALL USG 20/20W User's Guide Table of Contents Table of Contents About This User's Guide

.....

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

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

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

.. 3 Document Conventions.....

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

. 11 Part I: User's Guide....

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

. 27 Chapter 1 Introducing the ZyWALL

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

29 1.1 Overview and Key Default Settings

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

. 29 1.2 Wall-mounting ...

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

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

.....
29 1.3 Front Panel

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

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

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

.....
... 32 1.3.

1 Front Panel LEDs

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

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

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

..... 32 1.4 Management Overview .

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

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

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

.....
... 33 1.5 Starting and Stopping the ZyWALL .

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

.....
.....

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

.....
34 Chapter 2 Features and Applications

.....
.....

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

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

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

. 37 2.1 Features

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

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

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

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

..... 37 2.2 Applications .

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

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

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

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

39 2.2.1 VPN Connectivity

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

39 2.2.2 SSL VPN Network Access ...

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

. 39 2.2.3 User-Aware Access Control ..

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

41 Chapter 3 Web Configurator.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....
.....

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

.....
..... 63 4.

1.5 ISP Parameters

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

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

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

.. 63 4.1.6 Internet Access - Finish

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

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

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

..... 65 4.2 Device Registration ..

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

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

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

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

..... 65 Chapter 5 Quick Setup

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

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

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

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

69 5.1 Quick Setup Overview

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

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

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

.....
.....

. 69 5.2 WAN Interface Quick Setup ...

.....

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

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

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

.... 70 5.2.1 Choose an Ethernet Interface

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

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

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

70 5.2.2 Select WAN Type

.....

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

75 5.4 VPN Setup Wizard: Wizard Type

.....
.....

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

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

76 5.5 VPN Express Wizard - Scenario

.....
.....

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

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

77 5.5.1 VPN Express Wizard - Configuration

.....
.....

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

.....
.....

5.2 VPN Express Wizard - Summary

.....

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

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

.... 79 5.5.3 VPN Express Wizard - Finish

.....
.....

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

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

80 5.5.4 VPN Advanced Wizard - Scenario

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

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

.....
.....

... 81 5.5.

5 VPN Advanced Wizard - Phase 1 Settings

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

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

... 82 5.5.6 VPN Advanced Wizard - Phase 2

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

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

.. 83 5.5.7 VPN Advanced Wizard - Summary .

.....
.....

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

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

..... 85 5.

5.8 VPN Advanced Wizard - Finish

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

.....
.....

.....

.....

.....

.....

.....

.. 86 Chapter 6 Configuration Basics.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.. 87 6.1 Object-based Configuration ..

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

87 6.2 Zones, Interfaces, and Physical Ports

.....

.....

.....

.....

.....

.....

.....

.....

.....

.. 88 6.2.1 Interface Types .

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

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

. 89 6.2.2 Default Interface and Zone Configuration

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

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

..... 90 6.

3 Terminology in the ZyWALL

.....
.....

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

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

.....
.....

.. 91 6.4 Packet Flow ..

.....

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

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

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

.....
.....

..... 91 6.

4.1 Routing Table Checking Flow

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

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

.....

.....
92 6.4.2 NAT Table Checking Flow ..

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

... 94 6.5 Feature Configuration Overview .

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

... 95 12 ZyWALL USG 20/20W User's Guide Table of Contents 6.5.

1 Feature

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

5.2 Licensing Registration

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 96 6.5.3 Interface .

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

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

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

.....
.....

..... 96 6.5.4 Trunks ..

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

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

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

.....
.....

..... 96 6.5.

5 Policy Routes

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

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

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

.....
.....

..... 96 6.

5.6 Static Routes

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

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

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

.....
.. 98 6.5.7 Zones ..

.....
.....

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

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

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

.....
..... 98 6.
5.8 DDNS

.....
.....

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

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

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

.....
.....
.. 98 6.5.9 NAT ..

.....
.....

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

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

.....
.....

.....
.....
.....
.....
.....
.....
... 98 6.5.10 HTTP Redirect

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

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

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

.....
99 6.5.11 ALG ...

.....
.....

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

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

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

.....
*.. 100 6.5.12 Auth.
Policy*

.....
.....

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

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

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

... 100 6.5.13 Firewall

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

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

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

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

100 6.5.14 IPSec VPN

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

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

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

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

. 101 6.5.15 SSL VPN

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

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

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

.....
.....

101 6.5.16 Bandwidth Management ...

.....

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

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

.....

.....
102 6.5.17 ADP ...

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.. 102 6.5.18 Content Filter .

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 102 6.5.19 Anti-Spam ...

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 103 6.6 Objects .

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

... 107 7.1 How to Configure Interfaces, Port Roles, and Zones .

.....

.....

.....

.....

107 7.1.1 Configure a WAN Ethernet Interface ...

.....

.....

.....

.....

.....

..... 108 7.

1.2 Configure Port Roles

.....

.....

.....

.....

.....

.....

..... 109 7.1.3 Configure the DMZ Interface for a Local Network .

.....

.....

.....

.....

. 109 7.1.4 Configure Zones

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

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

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

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

..110 7.2 How to Configure a Cellular Interface ..

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

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

.....111 7.

3 How to Configure Load Balancing

.....
.....

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

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

.....113 7.3.1 Set Up Available Bandwidth on Ethernet Interfaces ..

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

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

.....113 7.3.2 Configure the WAN Trunk .

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

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

.....

.....
.....
.....114 7.4 How to Set Up an IPSec VPN Tunnel .

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

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

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

116 7.4.1 Set Up the VPN Gateway

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

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

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

..117 7.4.2 Set Up the VPN Connection

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

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

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

118 7.4.3 Configure Security Policies for the VPN Tunnel

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

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

...119 ZyWALL USG 20/20W User's Guide 13 Table of Contents 7.5 How to Configure User-aware Access Control .

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

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

..... 120 7.5.1 Set Up User Accounts ...

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

. 120 7.5.2 Set Up User Groups

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

121 7.5.3 Set Up User Authentication Using the RADIUS Server ...

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

..... 122 7.6 How to Use a RADIUS Server to Authenticate User Accounts based on Groups

..... 124 7.

7 How to Use Endpoint Security and Authentication Policies

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

..... 126 7.7.1 Configure the Endpoint Security Objects .

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

... 126 7.7.2 Configure the Authentication Policy

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

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

.....
.....

.... 128 7.

8 How to Configure Service Control

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

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

.....
.....

129 7.8.1 Allow HTTPS Administrator Access Only From the LAN ...

.....

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

..... 130 7.9 How to Allow Incoming H.

323 Peer-to-peer Calls

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

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

. 132 7.9.1 Turn On the ALG

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

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

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

.....
.....

133 7.9.2 Set Up a NAT Policy For H.323 ..

.....

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

.....
.....

.....
.....

..... 133 7.9.
3 Set Up a Firewall Rule For H.323

.....
.....

.....
.....

.....
.....

.....
.....

..... 135 7.10 *How to Allow Public Access to a Web Server ..*

.....
.....

.....
.....

.....
.....

.....
.....

.... 136 7.10.1 *Create the Address Objects*

.....
.....

.....
.....

.....
.....

.....
.....

.....
.....

..... 137 7.

10.2 Configure NAT

.....
.....

.....
.....

.....
.....

.....
.....

.....
.....

.....
.....

137 7.10.3 Set Up a Firewall Rule ...

.....
.....

.....
.....

.....
.....

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

... 138 7.11 How to Use an IPPBX on the DMZ .

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

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

. 139 7.11.1 Turn On the ALG ..

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

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

... 141 7.11.2 Create the Address Objects

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

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

.....
.....

... 141 7.11.
3 Setup a NAT Policy for the IPPBX

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

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

.... 142 7.11.4 Set Up a WAN to DMZ Firewall Rule for SIP

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

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

.... 143 7.11.5 Set Up a DMZ to LAN Firewall Rule for SIP

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

..... 144 7.12 How to Use Multiple Static Public WAN IP Addresses for LAN to WAN Traffic

.....
.....

. 145 7.12.1 Create the Public IP Address Range Object

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

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

. 145 7.12.2 Configure the Policy Route

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

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

.. 146 7.13 How to Set Up a Wireless LAN ..

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

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

.....
.....

. 146 7.13.1 Set Up User Accounts ..

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

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.....

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.....

.....

.....

.....

147 7.13.2 Create the WLAN Interface

.....

.....

.....

.....

.....

.....

.....

.....

.....

. 147 7.13.3 Set Up the Wireless Clients to Use the WLAN Interface ..

.....

.....

.....

.....

..... 150 Part II: Technical Reference ..

.....

.....

.....

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.....

.....

.....

.....

.. 163 Chapter 8 Dashboard

.....

.....

.....

.....

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.....

..... 165 8.1 Overview ..

.....

.....

.....

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

.....
.. 165 8.1.1 What You Can Do in this Chapter .

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

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

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

165 8.2 The Dashboard Screen

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

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

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

.....
.. 165 8.2.1 The CPU Usage Screen .

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

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

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

.....
171 8.2.2 The Memory Usage Screen .



[You're reading an excerpt. Click here to read official ZYXEL ZYWALL USG 20 user guide](#)

.....
.....
.....
..... 175 Chapter 9 Monitor..

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

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

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

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

..... 177 9.
1 Overview

.....
.....

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

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

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

.....
..... 177 9.
1.1 What You Can Do in this Chapter

.....
.....

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

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

.. 177 9.2 The Port Statistics Screen

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

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

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

..... 178 9.

2.1 The Port Statistics Graph Screen

.....
.....

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

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

..... 180 9.3 Interface Status Screen ..

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

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

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

..... 181 9.

4 The Traffic Statistics Screen

.....
.....

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

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

..... 183 9.

5 The Session Monitor Screen

.....

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

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

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

... 191 9.10 The following table describes the labels in this menu. Cellular Status Screen

.....
.....

.. 192 9.10.1 More Information

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

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

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

.... 194 9.11 USB Storage Screen

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

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

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.....

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

.... 195 9.

12 The IPSec Monitor Screen

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

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

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

.... 196 9.12.1 Regular Expressions in Searching IPSec SAs

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

.....
.....

.....
198 9.13 The SSL Connection Monitor Screen

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

.....
198 9.14 The Content Filter Statistics Screen

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

. 200 9.15 Content Filter Cache Screen

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

... 202 9.16 The Anti-Spam Statistics Screen

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

..... 204 9.

17 The Anti-Spam Status Screen

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

.....
.....
.....
..... 206 9.

18 Log Screen

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

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

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

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

..... 207 Chapter 10 Registration ..

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

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

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

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

. 211 10.1 Overview

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

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

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

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

.....211 10.1.1 What You Can Do in this Chapter ...

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

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

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

..211 10.1.2 What you Need to Know

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

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

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

...211 10.2 The Registration Screen

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

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

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

.. 212 10.3 The Service Screen

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

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

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

.....
.....

... 214 Chapter 11 Interfaces ..

.....

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

.....

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.....

.....

.....

.....

..... 217 11.1 Interface Overview

.....

.....

.....

.....

.....

.....

.....

.....

... 217 11.1.

1 What You Can Do in this Chapter

.....

.....

.....

.....

.....

.....

217 11.1.2 What You Need to Know

.....

.....

.....

.....

.....

.....

.....

218 ZyWALL USG 20/20W User's Guide 15 Table of Contents 11.2 Port Role

.....

.....

.....

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

.....
.....
.....
241 11.6 WLAN Interface General Screen

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

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

.....
.....
. 248 11.6.1 WLAN Add/Edit Screen ..

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

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

.....
.....
.....
... 252 11.6.
2 WLAN Add/Edit: WEP Security

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

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

.....
.....
..... 258 11.6.
3 WLAN Add/Edit: WPA-PSK/WPA2-PSK Security

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

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

. 259 11.6.4 WLAN Add/Edit: WPA/WPA2 Security

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

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

. 260 11.7 WLAN Interface MAC Filter ...

.....
.....

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

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

.....
.....

262 11.8 VLAN Interfaces

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

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

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

..... 264 11.8.1 VLAN Summary Screen ..

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

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

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

..... 266 11.8.2 VLAN Add/Edit .

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

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

.....
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.....

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.....

. 267 11.9 Bridge Interfaces

.....

.....

.....

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.....

. 274 11.9.1 Bridge Summary ..

.....

.....

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.....

.....

.... 276 11.9.2 Bridge Add/Edit

.....

.....

.....

.....

.....

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.....

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.....

..... 277 11.9.3 Virtual Interfaces Add/Edit .

.....

.....

.....

.....

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.....

.....

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

..... 282 11.10 Interface Technical Reference

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

.....
.....
.....
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... 284 Chapter 12 Trunks

.....
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.....
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289 12.1 Overview

.....
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.....

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

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

... 289 12.1.

1 What You Can Do in this Chapter

.....
.....

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

.... 289 12.1.2 *What You Need to Know*

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

.... 290 12.2 *The Trunk Summary Screen*

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

..... 292 12.3 *Configuring a Trunk* ..

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

.. 293 12.4 *Trunk Technical Reference*

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

.....
.....
.....
..... 295 Chapter 13 Policy and Static Routes ...

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

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

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

..... 297 13.
1 Policy and Static Routes Overview

.....
.....

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

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

.. 297 13.1.1 What You Can Do in this Chapter

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

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

.....
.....

... 297 13.1.
2 What You Need to Know

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

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

.. 298 13.2 Policy Route Screen ..

.....
.....

.....
.....

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

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

..... 323 14.4 Routing Protocol Technical Reference ...

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

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

... 324 Chapter 15 Zones ..

.....
.....

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

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.....
.....

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

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

..... 327 15.1 Zones Overview ...

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

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

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

... 327 15.1.

1 What You Can Do in this Chapter

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

... 327 15.1.2 What You Need to Know ...

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

... 328 15.2 The Zone Screen

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

... 329 15.3 Zone Edit

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

..... 330 Chapter 16 DDNS.....

.....

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

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

..... 331 16.
1 DDNS Overview

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

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

331 16.1.1 What You Can Do in this Chapter

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

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

.....
.....

. 331 16.1.2 What You Need to Know ..

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

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

.....
.....

. 331 16.2 The DDNS Screen ...

.....
.....
.....
..... 337 17.1.

1 What You Can Do in this Chapter

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

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

.....
..... 337 17.

1.2 What You Need to Know

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

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

.....
..... 338 17.

2 The NAT Screen

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

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

..... 338 17.2.1 The NAT Add/Edit Screen ...

.....
.....
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... 340 17.3 NAT Technical Reference

.....

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.....
343 Chapter 18 HTTP Redirect

.....
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.....
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..... *347 18.*
1 Overview

.....
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.....
.. 347 18.1.1 What You Can Do in this Chapter .

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

..... *347 18.1.*

2 What You Need to Know

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

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

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

..... 348 18.2 The HTTP Redirect Screen .

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

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

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.....
.....

.. 349 ZyWALL USG 20/20W User's Guide 17 Table of Contents 18.2.1 The HTTP Redirect Edit Screen

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

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.....

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. 350 Chapter 19 ALG

.....
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..... 351 19.1 ALG Overview ..

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

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

. 351 19.1.1 What You Can Do in this Chapter

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

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

.....
.....

.. 351 19.1.2 What You Need to Know .

.....

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

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

.....
.....

.. 352 19.1.3 Before You Begin .

.....

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

..... 355 19.2 The ALG Screen .

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

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..... 355 19.

3 ALG Technical Reference

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..... 357 Chapter 20 IP/MAC Binding

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... 359 20.1 IP/MAC Binding Overview

.....

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.....

..... 359 20.

1.1 What You Can Do in this Chapter

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

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

359 20.1.2 What You Need to Know ...

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

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

360 20.2 IP/MAC Binding Summary

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

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

. 360 20.2.1 IP/MAC Binding Edit

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

.....
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.....
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..... 361 20.2.

2 Static DHCP Edit

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

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

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

.....
362 20.3 IP/MAC Binding Exempt List

.....
.....

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

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.. 363 Chapter 21 Authentication Policy ...

.....
.....

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

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.....
.....

..... 365 21.

1 Overview

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

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.....
.....

.. 365 21.1.1 What You Can Do in this Chapter

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

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

.....
.....
... 365 21.1.

2 What You Need to Know

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

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

.....
.....

... 366 21.2 Authentication Policy Screen .

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

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

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

366 21.2.1 Creating/Editing an Authentication Policy

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

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.....

.... 369 Chapter 22 Firewall.....

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

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

..... 373 22.1 Overview

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

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.....
.....

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

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

..... 373 22.1.

1 What You Can Do in this Chapter

.....
.....

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

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

.... 373 22.1.2 What You Need to Know

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

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

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

.... 374 22.1.3 Firewall Rule Example Applications

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

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

..... 376 22.1.4 Firewall Rule Configuration Example .

.....
.....

.....

.....

.....

.....

.....

.....

.....

... 379 22.2 *The Firewall Screen* .

.....

.....

.....

.....

.....

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.....

.....

.....

.....

.....

.... 381 22.2.1 *Configuring the Firewall Screen*

.....

.....

.....

.....

.....

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.....

.....

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.....

... 382 22.2.2 *The Firewall Add/Edit Screen*

.....

.....

.....

.....

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.....

.....

.....

. 385 22.3 *The Session Limit Screen* ...

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....
.....
.....
... 386 22.3.1 The Session Limit Add/Edit Screen

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

..... 388 Chapter 23 IPsec VPN...

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

... 391 18 ZyWALL USG 20/20W User's Guide Table of Contents 23.1 IPsec VPN Overview .

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

..... 391 23.1.1 What You Can Do in this Chapter .

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

.....
... 391 23.1.

2 What You Need to Know

.....

.....

.....

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.....

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.....

.....

... 392 23.1.

3 Before You Begin

.....

.....

.....

.....

.....

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.....

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.... 394 23.2 The VPN Connection Screen

.....

.....

.....

.....

.....

.....

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.....

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.....

.....

..... 394 23.2.1 The VPN Connection Add/Edit (IKE) Screen ...

.....

.....

.....

.....

.....

.....

.....

.... 396 23.2.2 The VPN Connection Add/Edit Manual Key Screen

.....

.....

.....

.....

.....

.. 403 23.3 The VPN Gateway Screen ..

.....

.....

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

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

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

.. 406 23.3.1 The VPN Gateway Add/Edit Screen .

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

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

..... 407 23.

4 IPSec VPN Background Information

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

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

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

.... 415 Chapter 24 SSL VPN.

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

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

..... 427 24.1 Overview .

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

... 433 24.3.

1 How to Upload a Custom Logo

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

... 434 24.4 Establishing an SSL VPN Connection

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

. 435 Chapter 25 SSL User Screens

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

... 437 25.1 Overview .

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

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

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

. 437 25.1.1 What You Need to Know ..

.....

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

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

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

. 437 25.2 Remote User Login ...

.....

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

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

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

... 438 25.3 The SSL VPN User Screens

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

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

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

..... 443 25.4 Bookmarking the ZyWALL

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

.....
.....

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

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

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

449 27.1 The ZyWALL SecuExtender Icon

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

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

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

..... 449 27.2 Statistics

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

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

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

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

..... 450 27.3 View Log

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

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

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

.....

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.....
.....

. 451 27.4 Suspend and Resume the Connection

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

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

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.....

... 451 27.5 Stop the Connection .

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

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

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

... 452 ZyWALL USG 20/20W User's Guide 19 Table of Contents 27.6 Uninstalling the ZyWALL SecuExtender

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

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

.....
.....

... 452 Chapter 28 Bandwidth Management..

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

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

..... 453 28.

1 Overview

.....
.....

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

.. 453 28.1.1 What You Can Do in this Chapter

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

... 453 28.1.

2 What You Need to Know

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

.. 453 28.1.3 Bandwidth Management Examples .

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

. 457 28.2 TheBandwidth Management Screen

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

.....
.....
.....
. 461 28.2.1 The Bandwidth Management Add/Edit Screen

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

.....
.....
.. 463 Chapter 29 ADP ...

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

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

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.....
.....

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

... 467 29.1 Overview

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

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

..... 467 29.1.1 ADP ..

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

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

..... 467 29.1.

2 What You Can Do in this Chapter

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

... 467 29.1.3 What You Need To Know

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

.. 467 29.1.4 Before You Begin

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

... 468 29.2 The ADP General Screen .



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469 29.3 The Profile Summary Screen

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.....

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

.....
. 470 29.3.1 Base Profiles ..

.....
.....

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

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

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

..... 471 29.

3.2 Configuring The ADP Profile Summary Screen

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

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

.... 471 29.3.3 Creating New ADP Profiles

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

.....
.....

.....
.....

.....
.....
.....
.....
472 29.3.4 Traffic Anomaly Profiles

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

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

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

472 29.3.5 Protocol Anomaly Profiles

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

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

.....
.....

.. 475 29.3.6 Protocol Anomaly Configuration .

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

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

..... 475 29.4 ADP Technical Reference ...

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

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

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

... 479 Chapter 30 Content Filtering ..

.....
.....

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

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

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

..... 487 30.1 Overview .

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

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

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

..... . 487 30.1.1 What You Can Do in this Chapter ..

.....
.....

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

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

..... 487 30.1.2 What You Need to Know .

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

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

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

..... 487 30.1.3 Before You Begin .

.....

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

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

... 513 31.2 Viewing Content Filter Reports .

.....
.....

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

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

.. 513 Chapter 32 Anti-Spam ...

.....
.....

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

... 521 32.1 Overview .

.....

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

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

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

.....
.....

.....
521 32.1.1 What You Can Do in this Chapter

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

..... 521 32.1.2 What You Need to Know .

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

..... 521 32.2 Before You Begin ..

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

..... 523 32.3 The Anti-Spam General Screen ..

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

..... 523 32.3.1 The Anti-Spam Policy Add or Edit Screen ...

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

.....
.....
.....
..... 525 32.

4 The Anti-Spam Black List Screen

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

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

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

.... 527 32.4.1 The Anti-Spam Black or White List Add/Edit Screen

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

.. 529 32.4.2 Regular Expressions in Black or White List Entries .

.....
.....

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

. 530 32.5 The Anti-Spam White List Screen

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

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

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

..... 531 32.6 The DNSBL Screen ...

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

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

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

.....

.. 532 32.7 Anti-Spam Technical Reference ..

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

..... 534 Chapter 33 User/Group .

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

... 539 33.1 Overview .

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

. 539 33.1.1 What You Can Do in this Chapter ..

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

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

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

.....
.....

.... 546 33.
4 Setting Screen

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

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

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

.. 547 33.4.1 Default User Authentication Timeout Settings Edit Screens .

.....
.....

.....
.....

... 550 33.4.
2 User Aware Login Example

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

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

.....
.....

.... 552 33.
5 User /Group Technical Reference

.....
.....

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

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

..... 553 Chapter 34 Addresses..

.....

.....
.....

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

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

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

.....
..... 555 34.
1 Overview

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

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

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

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

.. 555 34.1.1 *What You Can Do in this Chapter* .

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

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

... 555 34.1.2 *What You Need To Know*

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

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

..... 561 ZyWALL USG 20/20W User's Guide 21 Table of Contents 35.

1 Overview

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

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

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

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

.. 561 35.1.1 What You Can Do in this Chapter

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

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

.....
.....

... 561 35.1.

2 What You Need to Know

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

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

.....
.....

... 561 35.2 The Service Summary Screen .

.....

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

.....

.....

.....

.....

.....

.....

.....

... 562 35.2.

1 The Service Add/Edit Screen

.....

.....

.....

.....

.....

.....

.....

.....

. 564 35.3 The Service Group Summary Screen ...

.....

.....

.....

.....

.....

.....

.....

.....

..... 564 35.

3.1 The Service Group Add/Edit Screen

.....

.....

.....

.....

.....

.....

.....

. 566 Chapter 36 Schedules

.....

.....

.....

.....

.....

.....

.....

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.....

.....

.....

.....

.....
.....
.. 567 36.1 Overview ..
.....

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

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

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

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

567 36.1.1 What You Can Do in this Chapter

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

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

..... 567 36.1.2 What You Need to Know ..

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

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

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

..... 567 36.2 The Schedule Summary Screen ...

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

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

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

... 568 36.2.1 The One-Time Schedule Add/Edit Screen

.....

.....
.....

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

..... 569 36.2.2 *The Recurring Schedule Add/Edit Screen* ..

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

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

..... 570 *Chapter 37 AAA Server* .

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

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

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

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

.....
..... 573 37.1 *Overview* .

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

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

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

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

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

..... 573 37.1.1 *Directory Service (AD/LDAP)* ..

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

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

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

..... 573 37.
1.2 RADIUS Server

.....
.....

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

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

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

... 574 37.1.3 ASAS

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

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

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

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

... 574 37.1.4 What You Can Do in this Chapter

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

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

..... 574 37.
1.5 What You Need To Know

.....
.....

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

.....

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

..... 575 37.2 Active Directory or LDAP Server Summary .

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

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

.....

... 577 37.2.

1 Adding an Active Directory or LDAP Server

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

.....

.... 577 37.

3 RADIUS Server Summary

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

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

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

..... 579 37.3.1 Adding a RADIUS Server ...

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

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

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

... 581 Chapter 38 Authentication Method

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

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

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

..... 583 38.1 Overview .

.....
.....

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

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

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

.....
. 583 38.1.1 What You Can Do in this Chapter ..

.....
.....

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

.....
.....

..... 583 38.1.2 Before You Begin .

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

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

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

..... 583 38.1.

3 Example: Selecting a VPN Authentication Method

.....
.....

.....
.....

..... 583 38.2 Authentication Method Objects .

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

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

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

..... 584 38.2.1 *Creating an Authentication Method Object* .

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

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

..... 585 *Chapter 39 Certificates* .

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

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

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

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

... 589 39.1 *Overview*

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

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

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

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

..... 589 39.1.1 *What You Can Do in this Chapter* ..

.....

.....
.....
... 594 39.
2.2 The My Certificates Edit Screen

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

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

..... 599 39.2.
3 The My Certificates Import Screen

.....
.....

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

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

.. 602 39.3 The Trusted Certificates Screen

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

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

.....
.....

... 603 39.3.
1 The Trusted Certificates Edit Screen

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

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

..... 604 39.3.

2 The Trusted Certificates Import Screen

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

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

.... 608 39.4 Certificates Technical Reference

.611 40.2 ISP Account Summary

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

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

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

....611 40.2.1 ISP Account Edit

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

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

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

.....
.....

612 Chapter 41 SSL Application

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

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

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

. 615 41.1 Overview ...

.....
.....

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

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

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

.....
..... 615 41.

1.1 What You Can Do in this Chapter

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

615 41.1.2 What You Need to Know

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

615 41.1.3 Example: Specifying a Web Site for Access

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

616 41.2 The SSL Application Screen

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

... 617 41.2.1 Creating/Editing a Web-based SSL Application Object

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

. 618 Chapter 42 Endpoint Security

.....

.....

.....

.....

.....

.....

.....

.....

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.....

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.....

.....

..... 621 42.

1 Overview

.....

.....

.....

.....

.....

.....

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.....

.....

.....

.....

.....

.....

.....

.. 621 42.1.1 What You Can Do in this Chapter .

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 622 42.1.

2 What You Need to Know

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 622 42.2 Endpoint Security Screen .

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

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

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

..... 623 42.3 Endpoint Security Add/Edit

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

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

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

.....

624 Chapter 43 System

.....
.....

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

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

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

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

. 629 43.1 Overview

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

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

.....

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

.... 629 43.1.1 *What You Can Do in this Chapter*

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

.....
629 43.2 *Host Name*

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

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

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

.....
630 43.3 *USB Storage*

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

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

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

..... 631 43.4 *Date and Time* ..

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

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

. 631 43.4.1 Pre-defined NTP Time Servers List

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

634 ZyWALL USG 20/20W User's Guide 23 Table of Contents 43.4.2 Time Server Synchronization ...

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

..... 635 43.5 Console Port Speed .

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

.... 636 43.6 DNS Overview

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

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

... 636 43.6.

1 DNS Server Address Assignment

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

.... 637 43.6.2 Configuring the DNS Screen

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

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

..... 637 43.6.

3 Address Record

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

640 43.6.4 PTR Record ...

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

.....
..... 640 43.

6.5 Adding an Address/PTR Record

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

.. 640 43.6.6 Domain Zone Forwarder .

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

. 641 43.6.7 Adding a Domain Zone Forwarder ..

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

. 641 43.6.8 MX Record

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

. 642 43.6.9 Adding a MX Record

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

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

..... 643 43.6.10 Adding a DNS Service Control Rule .

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

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

..... 643 43.7 WWW Overview ..

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

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

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

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

..... 644 43.7.

1 Service Access Limitations

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

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

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

.... 644 43.7.2 System Timeout

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

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

.....

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

..... 645 43.7.3 HTTPS .

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

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

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

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

.... 645 43.7.4 Configuring WWW Service Control

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

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

.....
.....

... 646 43.7.

5 Service Control Rules

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

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

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

.. 650 43.7.6 Customizing the WWW Login Page

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

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

..... 650 43.7.7 HTTPS Example ...

.....
.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.. 654 43.8 SSH ..

.....

.....

.....

.....

.....

.....

.....

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.....

.....

.....

.....

.....

.....

.... 661 43.8.1 How SSH Works

.....

.....

.....

.....

.....

.....

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.....

.....

.....

.....

.....

..... 662 43.8.2 SSH Implementation on the ZyWALL ..

.....

.....

.....

.....

.....

.....

.....

.....

.....

.. 663 43.8.3 Requirements for Using SSH .

.....

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

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

.....
663 43.8.4 Configuring SSH ...

.....
.....

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

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

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

.. 663 43.8.5 Secure Telnet Using SSH Examples

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

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

.... 665 43.9 Telnet

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

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

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

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

.....
. 666 43.9.1 Configuring Telnet ..

.....
.....

.....
.....

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

. 667 43.10 FTP

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

..... 668 43.

10.1 Configuring FTP

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

668 43.11 SNMP

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

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

.....
..... 674 43.

12.1 Configuring Vantage CNM

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

..... 675 43.

13 Language Screen

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

..... 677 Chapter 44 Log and Report

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

.. 679 44.1 Overview

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

.....

.....

.....

.....

.....

.....

.....

.....

..... 679 44.1.1 What You Can Do In this Chapter ...

.....

.....

.....

.....

.....

.....

.....

. 679 24 ZyWALL USG 20/20W User's Guide Table of Contents 44.2 Email Daily Report ...

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 679 44.3 Log Setting Screens .

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.. 681 44.3.1 Log Setting Summary .

.....

.....

.....

.....

.....

.....

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

.. 682 44.3.2 Edit System Log Settings .

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

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

.....
.....

683 44.3.3 Edit Remote Server Log Settings ...

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

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

. 688 44.3.4 Active Log Summary Screen

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

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

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

..... 690 Chapter 45 File Manager

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

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

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

.....
.....

.....
..... 693 45.1 Overview ..

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

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

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

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

693 45.1.1 What You Can Do in this Chapter

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

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

.....
.....

. 693 45.1.2 What you Need to Know ..

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

. 693 45.2 The Configuration File Screen ...

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

. 696 45.3 The Firmware Package Screen ...

.....

.....
.....
.....
.....

.....
.....
.....
.....

... 700 45.4 The Shell Script Screen .

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.. 702 Chapter 46 Diagnostics.....

.....
.....
.....
.....

.....
.....
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.....

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.....
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.... 705 46.1 Overview

.....
.....
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.....

.....
.....
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.....

723 48.1.1 What You Need To Know ...

.....

.....

.....

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.....

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.....

.....

..... 723 48.

2 The Reboot Screen

.....

.....

.....

.....

.....

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..... 723 Chapter 49 Shutdown.....

.....

.....

.....

.....

.....

.....

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.....

.. 725 ZyWALL USG 20/20W User's Guide 25 Table of Contents 49.1 Overview

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.....

..... 725 49.1.1 What You Need To Know ...

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.... 725 49.2 The Shutdown Screen

.....
.....
.....

.....
.....
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.....
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.....

.....
.....
.....
.....

. 725 Chapter 50 Troubleshooting....

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.....
.....

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.....
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.....
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.....
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.....

.. 727 50.1 Resetting the ZyWALL ..

.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.... 738 50.2 *Getting More Troubleshooting Help*

.....
.....
.....

.....
.....
.....

.....
.....

. 739 *Chapter 51 Product Specifications*

.....
.....
.....

.....
.....
.....

.....
.....
.....

. 741 51.1 *Power Adaptor Specifications*

.....
.....
.....

.....
.....
.....

.....
.....
.....

.. 745 *Appendix A Log Descriptions*

.....
.....
.....

.....
.....
.....
.....
.....
.....
.....

..... 747 *Appendix B Common Services...*

.....
.....
.....
.....
.....
.....
.....
.....
.....

799 *Appendix C Wireless LANs*

.....
.....
.....
.....
.....
.....
.....
.....
.....

... 803 *Appendix D Importing Certificates..*

.....
.....
.....
.....
.....
.....
.....
.....
.....

. 819 *Appendix E Open Software Announcements*

.....
.....
.....
.....
.....
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.....
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.....

. 935 Index.....

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. 939 26 ZyWALL USG 20/20W User's Guide PART I User's Guide 27 28 CHAPTER 1 Introducing the ZyWALL This chapter gives an overview of the ZyWALL. It explains the front panel ports, LEDs, introduces the management methods, and lists different ways to start or stop the ZyWALL. 1.1 Overview and Key Default Settings The ZyWALL is a comprehensive security device.

Its flexible configuration helps network administrators set up the network and enforce security policies efficiently. In addition, the ZyWALL provides excellent throughput, making it an ideal solution for reliable, secure service. The ZyWALL's security features include VPN, firewall, content filtering, ADP (Anomaly Detection and Protection), and certificates. It also provides bandwidth management, Instant Messaging (IM) and Peer to Peer (P2P) control, NAT, port forwarding, policy routing, DHCP server and many other powerful features. Flexible configuration helps you set up the network and enforce security policies efficiently. See Chapter 2 on page 37 for a more detailed overview of the ZyWALL's features. The ZyWALL provides excellent throughput with the reliability of dual WAN Gigabit Ethernet ports and load balancing. You can also use a 3G cellular USB (not included) for a third WAN connection. The ZyWALL lets you set up multiple networks for your company. The DeMilitarized Zone (DMZ) increases LAN security by providing separate ports for connecting publicly accessible servers.

The ZyWALL also provides two separate LAN networks. You can set ports to be part of the LAN1, WLAN, or DMZ. Alternatively, you can deploy the ZyWALL as a transparent firewall in an existing network with minimal configuration. 1.2 Wall-mounting Do the following to attach your ZyWALL to a wall. ZyWALL USG 20/20W User's Guide 29 Chapter 1 Introducing the ZyWALL Screw the two screws provided with your ZyWALL into the wall 150 mm apart (see the figure in step 2). Use screws with 6 mm ~ 8 mm (0.24" ~ 0.31") wide heads. Do not screw the screws all the way in to the wall; leave a small gap between the head of the screw and the wall.

The gap must be big enough for the screw heads to slide into the screw slots and the connection cables to run down the back of the ZyWALL. 1 Note: Make sure the screws are securely fixed to the wall and strong enough to hold the weight of the ZyWALL with the connection cables. 2 Align the holes on the back of the ZyWALL with the screws on the wall. Hang the ZyWALL on the screws. USG 20 30 ZyWALL USG 20/20W User's Guide Chapter 1 Introducing the ZyWALL USG 20W The ZyWALL should be wall-mounted horizontally.

The ZyWALL's side panels with ventilation slots should not be facing up or down as this position is less safe. ZyWALL USG 20/20W User's Guide 31 Chapter 1 Introducing the ZyWALL 1.3 Front Panel This section introduces the ZyWALL's front panel. Figure 1 ZyWALL Front Panel ZyWALL USG 20 ZyWALL USG 20W 1.3.

1 Front Panel LEDs The following table describes the LEDs. Table 1 Front Panel LEDs LED PWR Green Red COLOR STATUS Off On On DESCRIPTION The ZyWALL is turned off. The ZyWALL is turned on. There is a hardware component failure. Shut down the device, wait for a few minutes and then restart

the device (see Section 1.5 on page 34). If the LED turns red again, then please contact your vendor. The ZyWALL is not ready or has failed. The ZyWALL is ready and running. The ZyWALL is booting.

The ZyWALL had an error or has failed. Breathing The ZyWALL is in power saving mode. SYS Green Off On Blinking Red On 32 ZyWALL USG 20/20W User's Guide Chapter 1 Introducing the ZyWALL Table 1 Front Panel LEDs (continued) LED USB COLOR STATUS Green Off DESCRIPTION No device is connected to the ZyWALL's USB port or the connected device is not supported by the ZyWALL. A 3G USB card or a USB storage device is connected to the ZyWALL's USB port. The ZyWALL is connected to a 3G network through the connected 3G USB card. The wireless function is disabled on the ZyWALL. The wireless function is enabled on the ZyWALL. There is no traffic on this port. The ZyWALL is sending or receiving packets on this port. There is no connection on this port.

This port has a successful link. On Orange WLAN (20W Only) P1~P5 Green Green On Off On Off Blinking Orange Off On 1.4 Management Overview You can use the following ways to manage the ZyWALL. Web Configurator The Web Configurator allows easy ZyWALL setup and management using an Internet browser. This User's Guide provides information about the Web Configurator.

Figure 2 Managing the ZyWALL: Web Configurator Command-Line Interface (CLI) The CLI allows you to use text-based commands to configure the ZyWALL. You can access it using remote management (for example, SSH or Telnet) or via the ZyWALL USG 20/20W User's Guide 33 Chapter 1 Introducing the ZyWALL console port. See the Command Reference Guide for more information about the CLI. Console Port You can use the console port to manage the ZyWALL using CLI commands. See the Command Reference Guide for more information about the CLI.

The default settings for the console port are as follows. Table 2 Console Port Default Settings SETTING Speed Data Bits Parity Stop Bit Flow Control VALUE 115200 bps 8 None 1 Off 1.5 Starting and Stopping the ZyWALL Here are some of the ways to start and stop the ZyWALL. Always use Maintenance > Shutdown > Shutdown or the shutdown command before you turn off the ZyWALL or remove the power. Not doing so can cause the firmware to become corrupt. Table 3 Starting and Stopping the ZyWALL METHOD Turning on the power Rebooting the ZyWALL DESCRIPTION A cold start occurs when you turn on the power to the ZyWALL. The ZyWALL powers up, checks the hardware, and starts the system processes. A warm start (without powering down and powering up again) occurs when you use the Reboot button in the Reboot screen or when you use the reboot command. The ZyWALL writes all cached data to the local storage, stops the system processes, and then does a warm start. If you press the RESET button, the ZyWALL sets the configuration to its default values and then reboots.



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Using the RESET button 34 ZyWALL USG 20/20W User's Guide Chapter 1 Introducing the ZyWALL Table 3 Starting and Stopping the ZyWALL METHOD Clicking Maintenance > Shutdown > Shutdown or using the shutdown command Disconnecting the power DESCRIPTION Clicking Maintenance > Shutdown > Shutdown or using the shutdown command writes all cached data to the local storage and stops the system processes. Wait for the device to shut down and then manually turn off or remove the power. It does not turn off the power. Power off occurs when you turn off the power to the ZyWALL. The ZyWALL simply turns off. It does not stop the system processes or write cached data to local storage. The ZyWALL does not stop or start the system processes when you apply configuration files or run shell scripts although you may temporarily lose access to network resources. ZyWALL USG 20/20W User's Guide 35 Chapter 1 Introducing the ZyWALL 36 ZyWALL USG 20/20W User's Guide CHAPTER 2 Features and Applications This chapter introduces the main features and applications of the ZyWALL. 2.1 Features The ZyWALL's security features include VPN, firewallcontent filtering, ADP (Anomaly Detection and Protection), and certificates.

It also provides bandwidth management, NAT, port forwarding, policy routing, DHCP server and many other powerful features. The rest of this section provides more information about the features of the ZyWALL. High Availability To ensure the ZyWALL provides reliable, secure Internet access, set up one or more of the following: · Multiple WAN ports and configure load balancing between these ports. · One or more 3G (cellular) connections. Virtual Private Networks (VPN) Use IPSec, SSL to provide secure communication between two sites over the Internet or any insecure network that uses TCP/IP for communication.

The ZyWALL also offers hub-and-spoke IPSec VPN. Flexible Security Zones Many security settings are made by zone, not by interface, port, or network. As a result, it is much simpler to set up and to change security settings in the ZyWALL. You can create your own custom zones. You can add interfaces and VPN tunnels to zones.

ZyWALL USG 20/20W User's Guide 37 Chapter 2 Features and Applications Firewall The ZyWALL's firewall is a stateful inspection firewall. The ZyWALL restricts access by screening data packets against defined access rules. It can also inspect sessions. For example, traffic from one zone is not allowed unless it is initiated by a computer in another zone first. Anomaly Detection and Prevention (ADP) ADP (Anomaly Detection and Prevention) can detect malicious or suspicious packets and respond instantaneously. It can detect: · Anomalies based on violations of protocol standards (RFCs Requests for Comments) · Abnormal flows such as port scans. The ZyWALL's ADP protects against network-based intrusions. See Section 29.3.4 on page 472 and Section 29.

3.5 on page 475 for more on the kinds of attacks that the ZyWALL can protect against. You can also create your own custom ADP rules. Bandwidth Management Bandwidth management allows you to allocate network resources according to defined policies. This policy-based bandwidth allocation helps your network to better handle applications such as Internet access, e-mail, Voice-over-IP (VoIP), video conferencing and other business-critical applications. Content Filter Content filtering allows schools and businesses to create and enforce Internet access policies tailored to the needs of the organization. You can also subscribe to category-based content filtering that allows your ZyWALL to check web sites against an external database of dynamically-updated ratings of millions of web sites. You then simply select categories to block or monitor, such as pornography or racial intolerance, from a pre-defined list. Anti-Spam The anti-spam feature can mark or discard spam. Use the white list to identify legitimate e-mail.

Use the black list to identify spam e-mail. The ZyWALL can also check e-mail against a DNS black list (DNSBL) of IP addresses of servers that are suspected of being used by spammers. 38 ZyWALL USG 20/20W User's Guide Chapter 2 Features and Applications 2.2 Applications These are some example applications for your ZyWALL. See also Chapter 7 on page 107 for configuration tutorial examples.

2.2.1 VPN Connectivity Set up VPN tunnels with other companies, branch offices, telecommuters, and business travelers to provide secure access to your network. You can also set up additional connections to the Internet to provide better service. Figure 3 Applications: VPN Connectivity 2. 2.2 SSL VPN Network Access You can configure the ZyWALL to provide SSL VPN network access to remote users. ZyWALL USG 20/20W User's Guide 39 Chapter 2 Features and Applications 2.2.2.1 Full Tunnel Mode In full tunnel mode, a virtual connection is created for remote users with private IP addresses in the same subnet as the local network. This allows them to access network resources in the same way as if they were part of the internal network. Figure 4 Network Access Mode: Full Tunnel Mode 192.168.1.

100 https:// LAN (192.168.1.X) Web Mail File Share Web-based Application Non-Web Application Server 40 ZyWALL USG 20/20W User's Guide Chapter 2 Features and Applications 2.2.3 User-Aware Access Control Set up security policies that restrict access to sensitive information and shared resources based on the user who is trying to access it. Figure 5 Applications: User-Aware Access Control ZyWALL USG 20/20W User's Guide 41 Chapter 2 Features and Applications 42 ZyWALL USG 20/20W User's Guide CHAPTER 3 Web Configurator The ZyWALL Web Configurator allows easy ZyWALL setup and management using an Internet browser. 3.1 Web Configurator Requirements In order to use the Web Configurator, you must · Use Internet Explorer 7 or later, or Firefox 1.5 or later · Allow pop-up windows (blocked by default in Windows XP Service Pack 2) · Enable JavaScripts (enabled by default) · Enable Java permissions (enabled by default) · Enable cookies The recommended screen resolution is 1024 x 768 pixels.

3.2 Web Configurator Access 1 Make sure your ZyWALL hardware is properly connected. See the Quick Start Guide. ZyWALL USG 20/20W User's Guide 43 Chapter 3 Web Configurator Open your web browser, and go to http://192.168.

1.1. By default, the ZyWALL automatically routes this request to its HTTPS server, and it is recommended to keep this setting. The Login screen appears. 2 Figure 6 Login Screen 3 Type the user name (default: "admin") and password (default: "1234"). If your account is configured to use an ASAS authentication server, use the OTP (One-Time Password) token to generate a number. Enter it in the One-Time Password field.



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The number is only good for one login. You must use the token to generate a new number the next time you log in. 4 Click Login. If you logged in using the default user name and password, the Update Admin Info screen (Figure 7 on page 44) appears. Otherwise, the dashboard (Figure 8 on page 45) appears. Figure 7 Update Admin Info Screen 44 ZyWALL USG 20/20W User's Guide Chapter 3 Web Configurator The screen above appears every time you log in using the default user name and default password. If you change the password for the default user account, this screen does not appear anymore. Follow the directions in this screen.

If you change the default password, the Login screen (Figure 6 on page 44) appears after you click Apply. If you click Ignore, the Installation Setup Wizard opens if the ZyWALL is using its default configuration (see Chapter 4 on page 59); otherwise the dashboard appears as shown next. 5 Figure 8 Dashboard B C A 3.3 Web Configurator Screens Overview The Web Configurator screen is divided into these parts (as illustrated in Figure 8 on page 45): · A - title bar · B - navigation panel · C - main window ZyWALL USG 20/20W User's Guide 45 Chapter 3 Web Configurator 3.3.1 Title Bar The title bar provides some icons in the upper right corner. Figure 9 Title Bar The icons provide the following functions. Table 4 Title Bar: Web Configurator Icons LABEL Logout Help About Site Map Object Reference Console DESCRIPTION Click this to log out of the Web Configurator. Click this to open the help page for the current screen.

Click this to display basic information about the ZyWALL.

Click this to see an overview of links to the Web Configurator screens. Click this to open a screen where you can check which configuration items reference an object. Click this to open the console in which you can use the command line interface (CLI). See the CLI Reference Guide for details on the commands.

Click this to open a popup window that displays the CLI commands sent by the Web Configurator.

CLI 3.3.1.1 About Click this to display basic information about the ZyWALL. Figure 10 Title Bar 46 ZyWALL USG 20/20W User's Guide Chapter 3 Web Configurator The following table describes labels that can appear in this screen.

Table 5 Title Bar: Web Configurator Icons LABEL Boot Module Current Version Released Date OK DESCRIPTION This shows the version number of the software that handles the booting process of the ZyWALL. This shows the firmware version of the ZyWALL. This shows the date (yyyy-mm-dd) and time (hh:mm:ss) when the firmware is released. Click this to close the screen. 3.3.2 Navigation Panel Use the menu items on the navigation panel to open screens to configure ZyWALL features. Click the arrow in the middle of the right edge of the navigation panel to hide the navigation panel menus or drag it to resize them. The following sections introduce the ZyWALL's navigation panel menus and their screens. Figure 11 Navigation Panel 3.

3.2.1 Dashboard The dashboard displays general device information, system status, system resource usage, licensed service status, and interface status in widgets that you can re-arrange to suit your needs. See Chapter 8 on page 165 for details on the dashboard. ZyWALL USG 20/20W User's Guide 47 Chapter 3 Web Configurator 3.3.2.2 Monitor Menu The monitor menu screens display status and statistics information. Table 6 Monitor Menu Screens Summary

FOLDER OR LINK System Status Port Statistics Interface Status Traffic Statistics Session Monitor DDNS Status IP/MAC Binding Login Users WLAN Status Cellular Status VPN Monitor IPSec SSL Displays and manages the active IPSec SAs. Lists users currently logged into the VPN SSL client portal.

You can also log out individual users and delete related session information. Report Cache Anti-Spam Report Status Collect and display content filter statistics Manage the ZyWALL's URL cache. Collect and display spam statistics. Displays how many mail sessions the ZyWALL is currently checking and DNSBL (Domain Name Service-based spam Black List) statistics. Lists log entries.

Displays packet statistics for each physical port. Displays general interface information and packet statistics. Collect and display traffic statistics. Displays the status of all current sessions. Displays the status of the ZyWALL's DDNS domain names.

Lists the devices that have received an IP address from ZyWALL interfaces using IP/MAC binding. Lists the users currently logged into the ZyWALL. (For USG 20W only) Displays the connection status of the ZyWALL's wireless clients. Displays details about the ZyWALL's 3G connection status. TAB FUNCTION

Anti-X Statistics Content Filter Log 3.3.2.3 Configuration Menu Use the configuration menu screens to configure the ZyWALL's features. Table 7 Configuration Menu Screens Summary FOLDER OR LINK Quick Setup Licensing Registration Service Register the device and activate trial services. View the licensed service status and upgrade licensed services.

TAB FUNCTION Quickly configure WAN interfaces or VPN connections. 48 ZyWALL USG 20/20W User's Guide Chapter 3 Web Configurator Table 7

Configuration Menu Screens Summary (continued) FOLDER OR LINK Interface TAB Port Role Ethernet PPP Cellular WLAN VLAN Bridge Trunk FUNCTION Use this screen to set the ZyWALL's flexible ports as LAN1 or DMZ. Manage Ethernet interfaces and virtual Ethernet interfaces. Create and manage PPPoE and PPTP interfaces. Configure a cellular Internet connection for an installed 3G card. (For USG 20W only) Configure settings for an installed wireless LAN card. Create and manage VLAN interfaces and virtual VLAN interfaces. Create and manage bridges and virtual bridge interfaces.

Create and manage trunks (groups of interfaces) for load balancing and link High Availability (HA). Create and manage routing policies.

Create and manage IP static routing information. Configure device-level RIP settings. Configure device-level OSPF settings, including areas and virtual links. Configure zones used to define various policies. Define and manage the ZyWALL's DDNS domain names.

Set up and manage port forwarding rules. Set up and manage HTTP redirection rules. Configure SIP, H.323, and FTP pass-through settings. Routing Policy Route Static Route RIP OSPF Zone DDNS NAT HTTP Redirect ALG IP/MAC Binding Summary Exempt List Auth.

Policy Firewall Firewall Session Limit VPN IPSec VPN SSL VPN VPN Connection VPN Gateway Access Privilege Global Setting Profile Configure IP to MAC address bindings for devices connected to each supported interface. Configure ranges of IP addresses to which the ZyWALL does not apply IP/MAC binding. Define rules to force user authentication. Create and manage level-3 traffic rules. Limit the number of concurrent client NAT/firewall sessions.

Configure IPSec tunnels. Configure IKE tunnels.



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Configure SSL VPN access rights for users and groups. Configure the ZyWALL's SSL VPN settings that apply to all connections. ZyWALL USG 20/20W User's Guide 49 Chapter 3 Web Configurator Table 7 Configuration Menu Screens Summary (continued) FOLDER OR LINK BWM Anti-X ADP Content Filter General Profile General Filter Profile Anti-Spam General Black/White List DNSBL Object User/Group User Group Setting Create and manage users.

Create and manage groups of users. Manage default settings for all users, general settings for user sessions, and rules to force user authentication. Create and manage host, range, and network (subnet) addresses. Create and manage groups of addresses. Create and manage TCP and UDP services. Create and manage groups of services. Create one-time and recurring schedules. Active DirectoryDefault Active DirectoryGroup LDAP-Default LDAP-Group RADIUS-Default RADIUS-Group Auth. Method Certificate My Certificates Trusted Certificates ISP Account SSL Application Configure the default Active Directory settings. Create and manage groups of Active Directory servers.

Configure the default LDAP settings. Create and manage groups of LDAP servers. Configure the default RADIUS settings. Create and manage groups of RADIUS servers. Create and manage ways of authenticating users.

Create and manage the ZyWALL's certificates. Import and manage certificates from trusted sources. Create and manage ISP account information for PPPoE/PPTP interfaces. Create SSL web application objects. Display and manage ADP bindings.

Create and manage ADP profiles. Create and manage content filter policies. Create and manage the detailed filtering rules for content filtering policies. Turn anti-spam on or off and manage anti-spam policies. Set up a black list to identify spam and a white list to identify legitimate e-mail. Have the ZyWALL check e-mail against DNS Black Lists. TAB FUNCTION Address Address Address Group Service Schedule AAA Server Service Service Group 50 ZyWALL USG 20/20W User's Guide Chapter 3 Web Configurator Table 7 Configuration Menu Screens Summary (continued) FOLDER OR LINK Endpoint Security System Host Name USB Storage Date/Time Console Speed DNS WWW Service Control Login Page SSH TELNET FTP SNMP Vantage CNM Language Log & Report Email Daily Report Log Setting Configure where and how to send daily reports and what reports to send. Configure the system log, e-mail logs, and remote syslog servers. Configure the system and domain name for the ZyWALL. Configure the settings for the connected USB devices.

Configure the current date, time, and time zone in the ZyWALL. Set the console speed. Configure the DNS server and address records for the ZyWALL. Configure HTTP, HTTPS, and general authentication. Configure how the login and access user screens look. Configure SSH server and SSH service settings.

Configure telnet server settings for the ZyWALL. Configure FTP server settings. Configure SNMP communities and services. Configure and allow your ZyWALL to be managed by the Vantage CNM server.

Select the Web Configurator language. TAB FUNCTION Create Endpoint Security (EPS) objects. 3.3.2.

4 Maintenance Menu Use the maintenance menu screens to manage configuration and firmware files, run diagnostics, and reboot or shut down the ZyWALL.

Table 8 Maintenance Menu Screens Summary FOLDER OR LINK File Manager TAB Configuration File Firmware Package Shell Script FUNCTION Manage and upload configuration files for the ZyWALL. View the current firmware version and to upload firmware. Manage and run shell script files for the ZyWALL. ZyWALL USG 20/20W User's Guide 51 Chapter 3 Web Configurator Table 8 Maintenance Menu Screens Summary (continued) FOLDER OR LINK Diagnostics Packet Flow Explore TAB Diagnostic Packet Capture Routing Status FUNCTION Collect diagnostic information.

Capture packets for analysis. View a clear picture on how the ZyWALL determines where to route a packet and check the related settings. View a clear picture on how the ZyWALL converts a packet's source IP address and check the related settings. Restart the ZyWALL. Turn off the ZyWALL. SNAT Status Reboot Shutdown 3.3.3 Main Window The main window shows the screen you select in the navigation panel. The main window screens are discussed in the rest of this document. Right after you log in, the Dashboard screen is displayed.

See Chapter 8 on page 165 for more information about the Dashboard screen. 3.3.3.1 Warning Messages Warning messages, such as those resulting from misconfiguration, display in a popup window. Figure 12 Warning Message 52 ZyWALL USG 20/20W User's Guide Chapter 3 Web Configurator 3.3.3.2 Site

Map Click Site MAP to see an overview of links to the Web Configurator screens. Click a screen's link to go to that screen.

Figure 13 Site Map 3.3.3.3 Object Reference Click Object Reference to open the Object Reference screen. Select the type of object and the individual object and click Refresh to show which configuration settings reference the object.

The following example shows which configuration settings reference the ldap-users user object (in this case the first firewall rule). Figure 14 Object Reference ZyWALL USG 20/20W User's Guide 53 Chapter 3 Web Configurator The fields vary with the type of object. The following table describes labels that can appear in this screen. Table 9 Object References LABEL Object Name DESCRIPTION This identifies the object for which the configuration settings that use it are displayed. Click the object's name to display the object's configuration screen in the main window.

This field is a sequential value, and it is not associated with any entry. This is the type of setting that references the selected object. Click a service's name to display the service's configuration screen in the main window. If it is applicable, this field lists the referencing configuration item's position in its list, otherwise N/A displays. This field identifies the configuration item that references the object. If the referencing configuration item has a description configured, it displays here. Click this to update the information in this screen. Click Cancel to close the screen. # Service Priority Name Description Refresh Cancel 3.3.

3.4 CLI Messages Click CLI to look at the CLI commands sent by the Web Configurator. These commands appear in a popup window, such as the following. Figure 15 CLI Messages Click Clear to remove the currently displayed information. See the Command Reference Guide for information about the commands.

3.3.4 Tables and Lists The Web Configurator tables and lists are quite flexible and provide several options for how to display their entries. 54 ZyWALL USG 20/20W User's Guide Chapter 3 Web Configurator 3.3.

4.1 Manipulating Table Display Here are some of the ways you can manipulate the Web Configurator tables. 1 Click a column heading to sort the table's entries according to that column's criteria.



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Figure 16 Sorting Table Entries by a Column's Criteria 2 Click the down arrow next to a column heading for more options about how to display the entries. The options available vary depending on the type of fields in the column.

Here are some examples of what you can do: · Sort in ascending alphabetical order · Sort in descending (reverse) alphabetical order · Select which columns to display · Group entries by field · Show entries in groups · Filter by mathematical operators (<, >, or =) or searching for text Figure 17 Common Table Column Options ZyWALL USG 20/20W User's Guide 55 Chapter 3 Web Configurator Select a column heading cell's right border and drag to re-size the column. 3 Figure 18 Resizing a Table Column 4 Select a column heading and drag and drop it to change the column order. A green check mark displays next to the column's title when you drag the column to a valid new location. Figure 19 Changing the Column Order 5 Use the icons and fields at the bottom of the table to navigate to different pages of entries and control how many entries display at a time. Figure 20 Navigating Pages of Table Entries 56 ZyWALL USG 20/20W User's Guide Chapter 3 Web Configurator 3.

3.4.2 Working with Table Entries The tables have icons for working with table entries. A sample is shown next. You can often use the [Shift] or [Ctrl] key to select multiple entries to remove, activate, or deactivate. Figure 21 Common Table Icons Here are descriptions for the most common table icons. Table 10 Common Table Icons LABEL Add DESCRIPTION Click this to create a new entry. For features where the entry's position in the numbered list is important (features where the ZyWALL applies the table's entries in order like the firewall for example), you can select an entry and click Add to create a new entry after the selected entry. Double-click an entry or select it and click Edit to open a screen where you can modify the entry's settings. In some tables you can just click a table entry and edit it directly in the table.

For those types of tables small red triangles display for table entries with changes that you have not yet applied. To remove an entry, select it and click Remove. The ZyWALL confirms you want to remove it before doing so. To turn on an entry, select it and click Activate. To turn off an entry, select it and click Inactivate. To connect an entry, select it and click Connect. To disconnect an entry, select it and click Disconnect. Edit Remove Activate Inactivate Connect

Disconnect Object References Select an entry and click Object References to open a screen that shows which settings use the entry. See Section 11.3. 2 on page 232 for an example. Move To change an entry's position in a numbered list, select it and click Move to display a field to type a number for where you want to put that entry and press [ENTER] to move the entry to the number that you typed. For example, if you type 6, the entry you are moving becomes number 6 and the previous entry 6 (if there is one) gets pushed up (or down) one. 3.3.

4.3 Working with Lists When a list of available entries displays next to a list of selected entries, you can often just double-click an entry to move it from one list to the other. In some lists ZyWALL USG 20/20W User's Guide 57 Chapter 3 Web Configurator you can also use the [Shift] or [Ctrl] key to select multiple entries, and then use the arrow button to move them to the other list. Figure 22 Working with Lists 58 ZyWALL USG 20/20W User's Guide CHAPTER 4.1 Installation Setup Wizard Screens 4 Installation Setup Wizard If you log into the Web Configurator when the ZyWALL is using its default configuration, the first Installation Setup Wizard screen displays.

This wizard helps you configure Internet connection settings and activate subscription services. This chapter provides information on configuring the Web Configurator's installation setup wizard. See the feature-specific chapters in this User's Guide for background information. Figure 23 Installation Setup Wizard · Click the double arrow in the upper right corner to display or hide the help. · Click Go to Dashboard to skip the installation setup wizard or click Next to start configuring for Internet access. 4.1.1 Internet Access Setup - WAN Interface Use this screen to configure the WAN interface's type of encapsulation and method of IP address assignment. ZyWALL USG 20/20W User's Guide 59 Chapter 4 Installation Setup Wizard The screens vary depending on the encapsulation type. Refer to information provided by your ISP to know what to enter in each field.

Leave a field blank if you don't have that information. Note: Enter the Internet access information exactly as your ISP gave it to you. Figure 24 Internet Access: Step 1 · Encapsulation: Choose the Ethernet option when the WAN port is used as a regular Ethernet. Otherwise, choose PPPoE or PPTP for a dial-up connection according to the information from your ISP. · WAN Interface: This is the interface you are configuring for Internet access. · Zone: This is the security zone to which this interface and Internet connection belong. · IP Address Assignment: Select Auto if your ISP did not assign you a fixed IP address. Select Static if the ISP assigned a fixed IP address. 4.1.

2 Internet Access: Ethernet This screen is read-only if you set the previous screen's IP Address Assignment field to Auto. Use this screen to configure your IP address settings. Note: Enter the Internet access information exactly as given to you by your ISP. Figure 25 Internet Access: Ethernet Encapsulation · Encapsulation: This displays the type of Internet connection you are configuring. · First WAN Interface: This is the number of the interface that will connect with your ISP.

· Zone: This is the security zone to which this interface and Internet connection will belong. 60 ZyWALL USG 20/20W User's Guide Chapter 4 Installation Setup Wizard · IP Address: Enter your (static) public IP address. Auto displays if you selected Auto as the IP Address Assignment in the previous screen. The following fields display if you selected static IP address assignment. · IP Subnet Mask: Enter the subnet mask for this WAN connection's IP address. · Gateway IP Address: Enter the IP address of the router through which this WAN connection will send traffic (the default gateway). · First / Second DNS Server: These fields display if you selected static IP address assignment. The Domain Name System (DNS) maps a domain name to an IP address and vice versa. Enter a DNS server's IP address(es). The DNS server is extremely important because without it, you must know the IP address of a computer before you can access it.



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