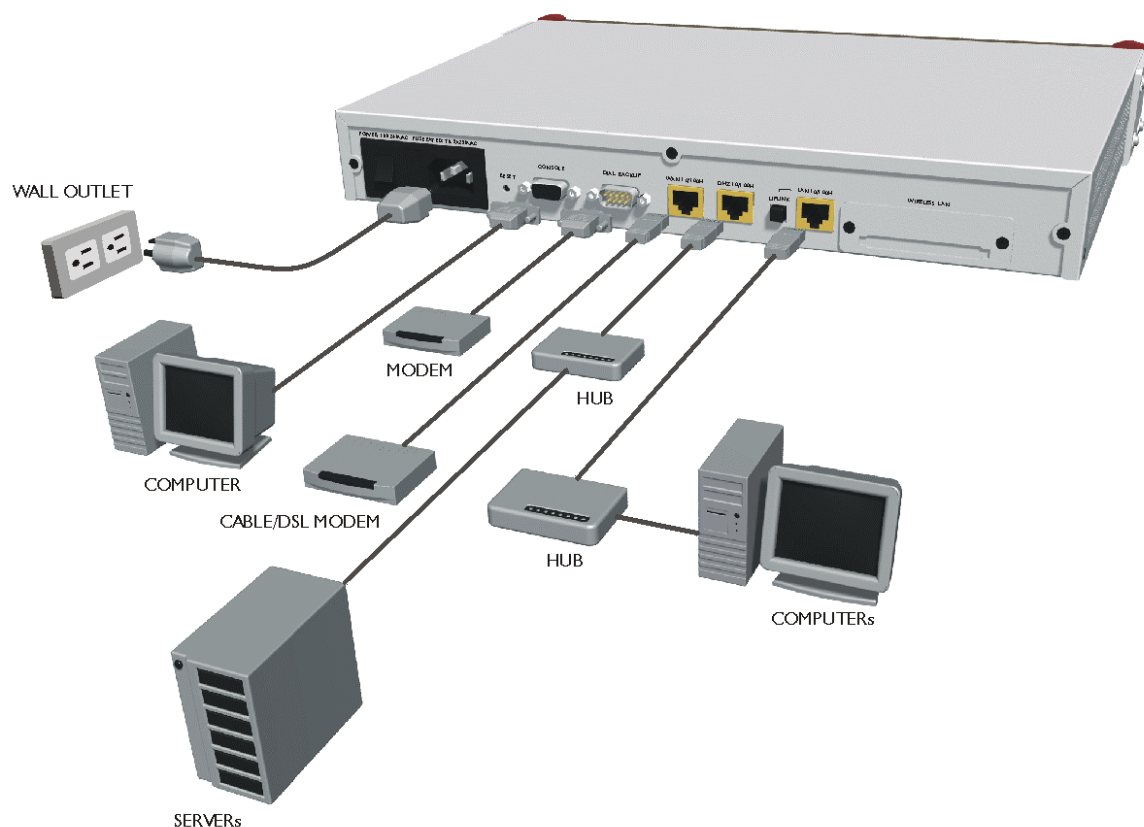


ZyWALL 100 Read Me First



Rear Panel Connections

PORT	CONNECTION	
CONSOLE	Connect to your computer's com port using a console cable.	
WAN 10/100M	Connect to a cable/xDSL device using an Ethernet cable.	
DIAL BACKUP	Connect to an analog or ISDN device using a console (RS-232) cable.	
POWER	Connect the power cord to the ZyWALL and plug it into an appropriate power outlet.	
	TO A COMPUTER	TO A HUB
DMZ	Crossover Ethernet cable	Straight-through Ethernet cable
LAN 10/100M - UPLINK button "on" (pushed in)	Straight-through Ethernet cable	Crossover Ethernet cable
LAN 10/100M - UPLINK button "off" (out)	Crossover Ethernet cable	Straight-through Ethernet cable
WIRELESS LAN	Use a ZyXEL Wireless PC Card to connect to a wireless LAN.	

Register your ZyWALL online at www.zyxel.com for free product updates and information.

Before You Start

ZYWALL FACTORY DEFAULTS	
IP Address: 192.168.1.1	Subnet Mask: 255.255.255.0
Password: 1234	DHCP IP Pool: 192.168.1.33 – 192.168.1.64

Network Access Checklist

You need a broadband modem and an account with an Internet Service Provider (ISP).

1. Your user (account) name and password.
2. Encapsulation (Ethernet, PPTP or PPPoE)
3. You may need to know your Service Name if you are using PPTP or PPPoE.
4. Service type, when using Ethernet (Standard, RR-Toshiba, RR-Manager or RR-Telstra.
5. The IP address(es) of the Domain Name System server(s) if supplied by your ISP.

Preparing Your Network

All computers must have a 10M or 100M NIC (Network Interface Card) and TCP/IP installed.

TCP/IP should already be installed on computers using Windows NT/2000/XP, Macintosh OS 7 and later operating systems.

These procedures are for dynamic IP addresses.

Setting up Your Windows 95/98/Me Computer

Installing TCP/IP Components

1. Click **Start, Settings, Control Panel** and double-click the **Network** icon.
2. The **Network** window **Configuration** tab displays a list of installed components.

To install TCP/IP:

- a. In the **Network** window, click **Add**.
- b. Select **Protocol** and then click **Add**.
- c. Select **Microsoft** from the list of manufacturers.
- d. Select **TCP/IP** from the list of network protocols and then click **OK**.

Configuring TCP/IP

1. In the **Network** window **Configuration** tab, select your network adapter's **TCP/IP** entry and click **Properties**.
2. Click the **IP Address** tab. Click **Obtain an IP address automatically**.
3. Click the **DNS Configuration** tab. Select **Disable DNS**.
4. Click the **Gateway** tab. Highlight any installed gateways and click **Remove** until there are none listed.
5. Click **OK** to save and close the **TCP/IP Properties** window.
6. Click **OK** to close the **Network** window.
7. Turn on your ZyWALL and restart your computer when prompted. Insert the Windows CD if prompted.

Verifying TCP/IP Properties

1. Click **Start** and then **Run**. In the **Run** window, type "winipcfg" and then click **OK** to open the **IP Configuration** window.
2. Select your network adapter. You should see your computer's IP address, subnet mask and default gateway.

Setting up Your Windows NT/2000/XP Computer

Configuring TCP/IP

1. Click **Start, Settings, Network and Dial-up Connections** and right-click **Local Area Connection** or the connection you want to configure and click **Properties**. For Windows XP, click **start, Control Panel, Network and Internet Connections** and then **Network Connections**. Right-click the network connection you want to configure and then click **Properties**.
2. Select **Internet Protocol (TCP/IP)** (under the **General** tab in Win XP) and click **Properties**.
3. The **Internet Protocol TCP/IP Properties** window opens. Click **Obtain an IP address automatically**.
4. Click **Obtain DNS server automatically**.
5. Click **Advanced, IP Settings** tab and remove any installed gateways, then click **OK**.
6. Click **OK** to save and close the **Internet Protocol (TCP/IP) Properties** window.
7. Click **OK** to close the **Local Area Connection Properties** window.
8. Turn on your ZyWALL and restart your computer (if prompted).

Verifying TCP/IP Properties

1. Click **Start, Programs, Accessories** and then **Command Prompt**.
2. In the **Command Prompt** window, type "ipconfig" and then press **ENTER**. The window displays information about your IP address, subnet mask and default gateway.

Setting up Your Macintosh Computer

Configuring TCP/IP Properties

1. Click the **Apple** menu, **Control Panel** and double-click **TCP/IP** to open the **TCP/IP Control Panel**.
2. Select **Ethernet** from the **Connect via** list.
3. Select **Using DHCP Server** from the **Configure** list.
4. Close the **TCP/IP Control Panel**.
5. Click **Save** if prompted, to save changes to your configuration.
6. Turn on your ZyWALL and restart your computer (if prompted).

Verifying TCP/IP Properties

Check your TCP/IP properties in the **TCP/IP Control Panel**.

Accessing the ZyWALL

1. Web configurator
2. SMT (System Management Terminal). Access the SMT via:

- Telnet
- Console port using terminal emulation software

Procedure For Web Configurator Configuration

1. Launch your web browser and enter "192.168.1.1" as the URL.
2. Type "1234" (default) as the password and press **ENTER**.
3. You should now see the **Main Menu** screen. Click the help icon (located in the upper right portion of most screens) for online HTML help.

Procedure For SMT Configuration via Telnet

1. Launch a Telnet program. In Windows, click **Start** and then **Run**.
2. Type "Telnet" followed by a space and the IP address of the ZyWALL, (192.168.1.1 is the default) and click **OK** to display the password screen.
3. Enter "1234", the default password, to access the SMT main menu. As you type a password, the screen displays an "X" for each character you type.

Procedure For SMT Configuration via Console Port

1. Configure a terminal emulation communications program as follows: VT100 terminal emulation, no parity, 8 data bits, 1 stop bit, data flow set to none, 9600 bps port speed.
2. Press **ENTER** to display the SMT password screen. The default password is "1234".

Use the ISP information you gathered to configure SMT menu 4 and access the Internet. Refer to your *User's Guide* for details.

Troubleshooting

Before performing troubleshooting, make sure both the ZyWALL's power (PWR) LED and the system status (SYS) LED are on. See the *User's Guide* for more information about the SMT menus. In the web configurator, click the help icon.

PROBLEM	CORRECTIVE ACTION
The PWR LED is off.	Make sure that the ZyWALL's power cord is connected to the ZyWALL and plugged in to an appropriate power source. Check that the ZyWALL and the power source are both turned on. If the error persists, you may have a hardware problem. In this case, you should contact your vendor.
The SYS LED is off.	Turn the ZyWALL's power off and then on again.
Cannot access the ZyWALL via the console port.	Make sure the ZyWALL is connected to your computer's serial port. Check to see if the communications program is configured correctly. The communications software should be configured as follows: <ul style="list-style-type: none"> ➤ VT100 terminal emulation, no parity, 8 data bits, 1 stop bit, data flow set to none. ➤ 9600 bps is the default speed on leaving the factory. Try other speeds in case the speed has been changed.
The LAN LED does not come on.	Check your Ethernet cable type and connections. Refer to the <i>Cable Connections</i> section for details. Make sure your NIC (Network Interface Card) is installed and functioning properly.
Cannot access the web configurator.	The default password is "1234". If you have changed the password and have now forgotten it, you will need to upload the default configuration file (see the <i>User's Guide</i>). If you cannot get to the web configurator login screen: Make sure that there is not an SMT console session running. Check if you have applied a filter in SMT menu 3.1 (LAN) or menu 11.5 (WAN) to block web service. Check that you have enabled web service access in SMT Menu 24.11 - Remote Management Control . For WAN access, you must configure the Server Access field to ALL . Otherwise, the firewall (when activated) blocks all WAN to LAN traffic by default. If you have configured an IP address in the Secured

	<p>Client IP field, your computer's IP address must match it.</p> <p>For access from the LAN, check your computer's TCP/IP configuration. The IP address and the subnet mask of the ZyWALL and your computer must be on the same subnet.</p>
Cannot ping any computer on the LAN.	<p>If the 10/100M LAN LEDs are off, check the cables between the ZyWALL and your computer or hub.</p> <p>Verify that the IP address and the subnet mask of the ZyWALL and the computers are on the same subnet.</p>
Cannot get a WAN IP address from the ISP.	<p>The WAN IP is provided after the ISP verifies the MAC address, host name or user ID.</p> <p>Find out the verification method used by your ISP and configure the corresponding fields.</p>
	<p>If the ISP checks the WAN MAC Address and does not allow you to use a new MAC, clone a MAC from the LAN. In the SMT, use menu 2. In the web configurator, click ADVANCED, WAN and then the MAC tab. ZyXEL recommends that you configure this menu even if your ISP presently does not require MAC address authentication.</p>
	<p>If the ISP checks the host name, enter your computer's name as the system name in SMT menu 1 or in the first screen of the web configurator's WIZARD SETUP.</p>
	<p>If the ISP checks the user ID, check your service type, user name, and password. In the SMT, use menu 4. In the web configurator; click ADVANCED, WAN and the ISP tab.</p>
Cannot access the Internet.	<p>Make sure the cable/xDSL device is turned on and connected to the ZyWALL and the Internet.</p> <p>If the ZyWALL's WAN LED is not on, check the cable between the ZyWALL and the cable/xDSL device.</p> <p>Check whether your cable/xDSL device requires a crossover or straight-through cable.</p> <p>Verify your settings in SMT menus 2 and 4. In the web configurator, click ADVANCED and then WAN.</p>