

ZyWALL 10W

Internet Security Gateway

Quick Start Guide

Version 3.60

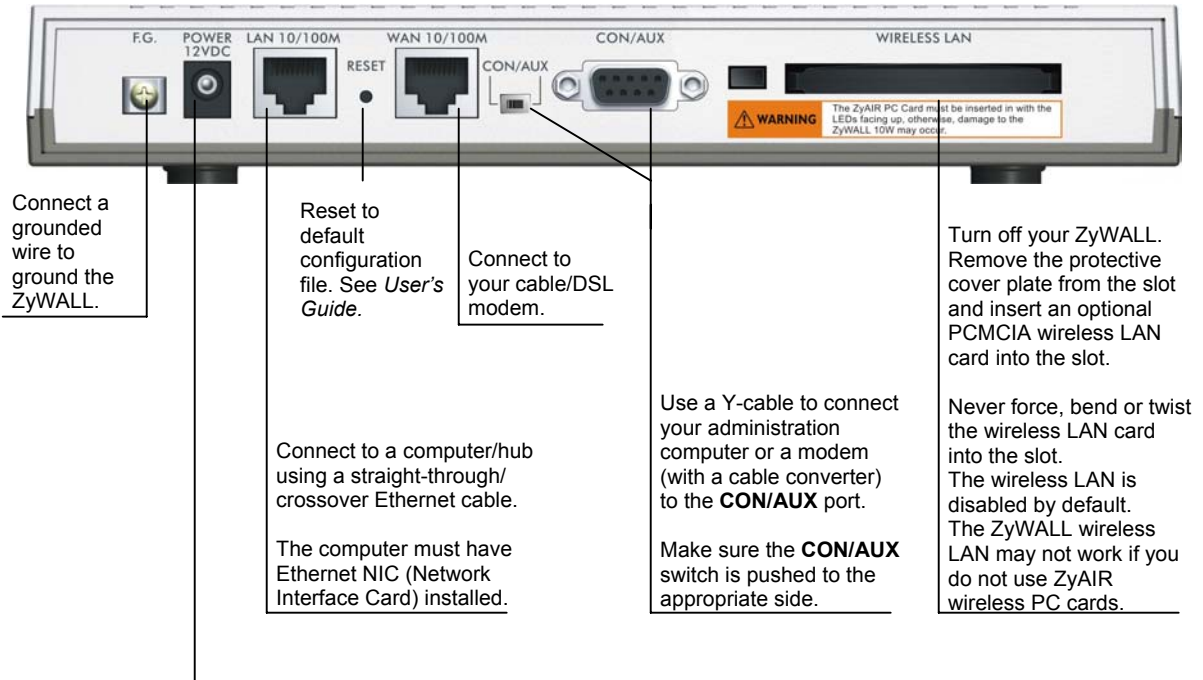
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ZyXEL

TOTAL INTERNET ACCESS SOLUTION

Hardware Installation

Rear Panel and Connections



Do this last. Connect to a power source using the supplied power adapter.

The PWR and CON/AUX LEDs turn on. The SYS LED blinks and turns steady on. The SYS LED turns red if power is too low. The LAN, WAN and WLAN LEDs turn on, if they are properly connected.

The Front Panel

Refer to the *User's Guide* for LED descriptions.



Internet Account Checklist

Your ISP (Internet Service Provider) should have given you most of the following information. You do not need to fill in every blank.

REQUIRED INFORMATION	
Your device's WAN IP Address (if given): _____	
DNS Server IP Address (if given): Primary _____, Secondary _____	
Encapsulation:	
<input type="checkbox"/> Ethernet	Service Type: _____ Login Server IP Address: _____ User Name: _____ Password: _____
<input type="checkbox"/> PPTP	User Name: _____ Password: _____ Your WAN IP Address: _____ PPTP Server IP Address: _____ Connection ID (if required): _____
<input type="checkbox"/> PPPoE	(PPPoE) Service Name: _____ User Name: _____ Password: _____

Setting Up Your Computer IP Address

Skip this section if your computer is already set up to accept a dynamic IP address. This is the default for most new computers.

Your computer must have a 10M/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.

Windows 2000/NT/XP

1. In Windows XP, click **start, Control Panel**. In Windows 2000/NT, click **Start, Settings, Control Panel**.
2. In Windows XP, click **Network Connections**.
In Windows 2000/NT, click **Network and Dial-up Connections**.
3. Right-click **Local Area Connection** and then click **Properties**.
4. Select **Internet Protocol (TCP/IP)** (under the **General** tab in Win XP) and click **Properties**.

5. The **Internet Protocol TCP/IP Properties** screen opens (the **General tab** in Windows XP).
 - To have your computer accept a dynamic IP address, click **Obtain an IP address automatically**.
 - If you want a static IP address, click **Use the following IP Address** and fill in the **IP address** (192.168.1.2 to 192.168.1.254), **Subnet mask** (255.255.255.0), and **Default gateway** (192.168.1.1) fields.
6. Click **Advanced**. Remove any previously installed gateways in the **IP Settings** tab and click **OK** to go back to the **Internet Protocol TCP/IP Properties** screen.
7. Click **Obtain DNS server address automatically** if you do not know your DNS server IP address(es).
 - If you know your DNS server IP address(es), click **Use the following DNS server addresses**, and type them in the **Preferred DNS server** and **Alternate DNS server** fields.
 - If you have more than two DNS servers, click **Advanced**, **DNS** and click **Add**.
8. Click **OK** to close the **Internet Protocol (TCP/IP) Properties** window.
9. Click **OK** to close the **Local Area Connection Properties** window.

Checking/Modifying Your Computer's IP Address

1. In the computer, click **Start, (All) Programs, Accessories** and then **Command Prompt**.
2. In the **Command Prompt** window, type "ipconfig" and then press **ENTER** to verify that your computer's static IP address is in the correct subnet (192.168.1.2 to 192.168.1.254 if using the default ZyWALL LAN IP address). Alternatively, to have the ZyWALL assign your computer a new IP address (from the IP pool), make sure your ZyWALL is turned on, type "ipconfig/renew" and then press **ENTER**.

Your computer can now communicate with the ZyWALL using the LAN port.

Refer to your User's Guide for detailed IP address configuration for other computer operating systems.

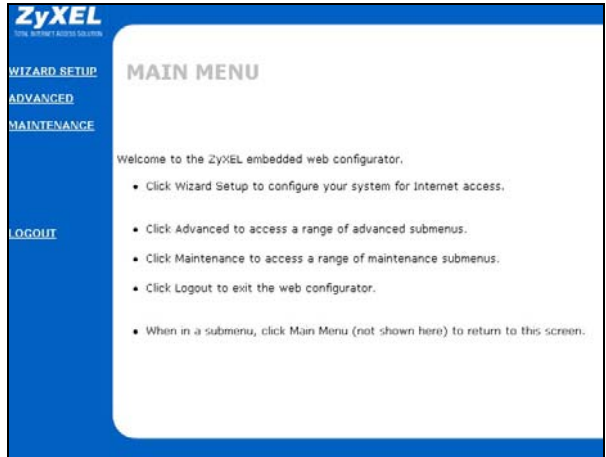
Accessing Your ZyWALL

Configure your ZyWALL using:

- Web Configurator
- SMT (System Management Terminal). Access the SMT via:
 - LAN or WAN using Telnet
 - Console port using terminal emulation software

Procedure For Web Configurator Configuration

1. Make sure your computer IP address and the ZyWALL IP address are on the same subnet. Refer to the *TCP/IP* section in your User's Guide.
2. Launch your web browser and enter "192.168.1.1" as the URL.
3. Enter "1234" (default) as the password and click **Login**. In some versions, the default password appears automatically - if this is the case, just click **Login**. You should see a screen asking you to change your password (highly recommended).
4. Either enter a new password (and retype it to confirm) and click **Login** or click **Ignore**.



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.

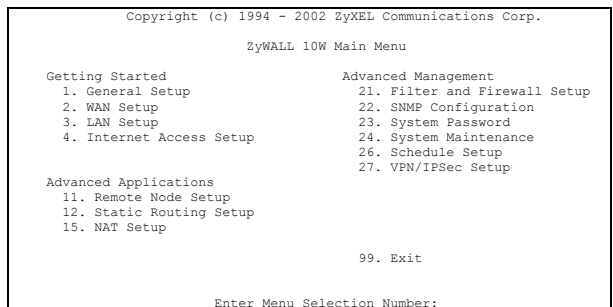
Procedure For SMT Configuration via Console Port

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

Enter the password (1234 is the default), to access the SMT main menu.

Procedure For SMT Configuration via Telnet

Launch a Telnet program. In Windows, click **Start** and then **Run**. 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.



Configuring for Internet Access

Configuration Using Web Configurator Wizard

1. Click **Wizard Setup** in the main menu. Follow the online instructions to configure the first wizard setup screen and click **Next**.
2. Use the information in the previous *Required Information* table to enter the related fields in the following screen and click **Next**.
3. In the following screen, repeat step 2 and click **Finish** to complete the wizard setup.

WIZARD SETUP

ISP Parameters for Internet Access

Encapsulation	Ethernet
Service Type	Standard
User Name	N/A
Password	N/A
Login Server IP Address	N/A

Back Next

WIZARD SETUP

WAN IP Address Assignment

Get automatically from ISP (Default)
 Use fixed IP address

IP Address: 0.0.0.0
 IP Subnet Mask: 0.0.0.0
 Gateway IP Address: 0.0.0.0

WAN MAC Address

Factory default
 Spoof this computer's MAC Address - IP Address

192.168.1.3

Back Finish

Configuration Using SMT Menu 4

1. Enter 4 in the main menu and press **ENTER** to display **Menu 4 – Internet Access Setup**.
2. Use the information in the previous *Required Information* table to fill in related fields in the SMT screen shown.

```

Menu 4 - Internet Access Setup

ISP's Name= ChangeMe
Encapsulation= Ethernet
Service Type= Standard
My Login= N/A
My Password= N/A
Login Server= N/A

IP Address Assignment= Dynamic
IP Address= N/A
IP Subnet Mask= N/A
Gateway IP Address= N/A
Network Address Translation= SUA Only

Press ENTER to Confirm or ESC to Cancel:
    
```

Press ENTER at the "Press ENTER to Confirm or ESC to Cancel:" prompt to save your settings.

Activating the Wireless LAN

The wireless LAN is *disabled* by default. Before you enable the wireless LAN you should configure some security, for example, setting MAC address filters and/or 802.1X security; otherwise your LAN will be vulnerable upon enabling it.

Setting MAC filters

Using the SMT

1. Type 3 in the main menu and press **ENTER**.
2. Type 5 in **Menu 3 – LAN Setup** and press **ENTER**. Refer to the User's Guide to set up MAC address filters.

Using the Web Configurator

1. Click **ADVANCED** in the main menu and then **WIRELESS LAN**.
2. Click the **MAC Filter** tab. Follow the on-line help to set up MAC filters.

Setting 802.1X Security Using the Web Configurator

Follow the on-line help to set up 802.1X security using the **WIRELESS LAN** screens.

Enable the Wireless LAN

Using SMT Menu 3.5

Press **SPACE BAR** to select **Yes** in the **Enable Wireless LAN** field and press **ENTER**.

Refer to the User's Guide to enable WEP and set up WEP keys.

```

Menu 3.5 - Wireless LAN Setup

Enable Wireless LAN= Yes
ESSID= Wireless
Hide ESSID= No
Channel ID= CH01 2412MHz
RTS Threshold= 2432
Frag. Threshold= 2432
WEP= Disable
Default Key= N/A
Key1= N/A
Key2= N/A
Key3= N/A
Key4= N/A
Edit MAC Address Filter= No

Press ENTER to Confirm or ESC to Cancel:
    
```

Using the Web Configurator

WIRELESS LAN

Wireless MAC Filter Rd

Enable Wireless LAN

ESSID: Wireless

Hide ESSID: No

Channel ID: Channel-01 2412MHz

RTS/CTS Threshold: 0 (0 - 2432)

Fragmentation Threshold: 2432 (256 - 2432)

WEP Encryption: Disable

64-bit WEP: Enter 5 characters or 10 digit ("0-9", "A-F") for each Key(1-4).
 128-bit WEP: Enter 13 characters or 26 digit ("0-9", "A-F") for each Key(1-4).
 (Select one WEP key as an active key to encrypt wireless data transmission.)

Key 1

Key 2

Key 3

Key 4

Click **Apply**.

Select the checkbox to activate wireless LAN.

Follow the on-line help to enable WEP and set up WEP keys.

Troubleshooting

PROBLEM	CORRECTIVE ACTION
None of the LEDs turn on when you turn on the ZyWALL.	<p>Make sure that you have the correct power adapter connected to the ZyWALL and plugged in to an appropriate power source.</p> <p>If the error persists, you may have a hardware problem. In this case, you should contact your local vendor.</p>
Cannot access the ZyWALL from the LAN.	<p>Check the cable connection between the ZyWALL and your computer or hub. Refer to the <i>Rear Panel and Connections</i> section for details.</p> <p>Make sure your NIC (Network Interface Card) is installed and functioning properly.</p>
Cannot ping any computer on the LAN.	<p>If the 10/100M LAN LEDs are off, check the cable connection 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, click MAINTENANCE and then DHCP Table to display the ZyWALL 's WAN MAC address. Send it to the ISP.</p> <p>If the ISP does not allow you to use a new MAC address, click ADVANCED, WAN and then the MAC tab. Clone the MAC from the LAN as the WAN. 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 (refer to the <i>Wizard Setup</i> section in the <i>User's Guide</i>) in the System Name field in the first screen of the WIZARD SETUP.</p>
	<p>If the ISP checks the user ID, click ADVANCED, WAN and the ISP tab. Check your service type, user name, and password.</p>
Cannot access the Internet.	<p>Check the ZyWALL's connection to the cable/xDSL device.</p>
	<p>Check whether your cable/xDSL device requires a crossover or straight-through cable.</p>
	<p>Click ADVANCED and then WAN and verify your settings.</p>