D-Link Quick Installation Guide

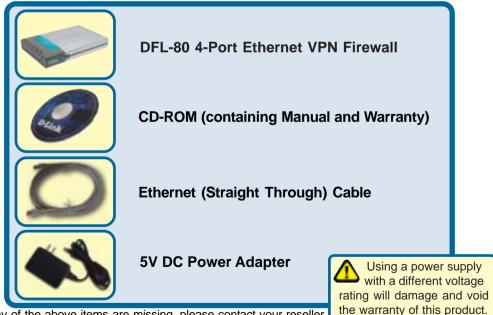
This product can be set up using any current web browser, i.e., Internet Explorer 6 or Netscape Navigator 6.2.3.

DFI -80 4-Port Ethernet VPN Firewall

Before You Begin

- If you purchased this Firewall to share your high-speed Internet connection with 1. other computers, you must have either an Ethernet-based Cable or DSL modem with an established Internet account from an Internet Service Provider (ISP).
- 2. It's best to use the same computer that is connected to your modem for configuring the DFL-80 VPN Firewall. The DFL-80 acts as a DHCP server and will assign all the necessary IP address information on your network. See Appendix at the end of this Quick Installation Guide or the Manual on the CD-ROM for setting each network adapter to automatically obtain an IP address.

Check Your Package Contents



If any of the above items are missing, please contact your reseller.

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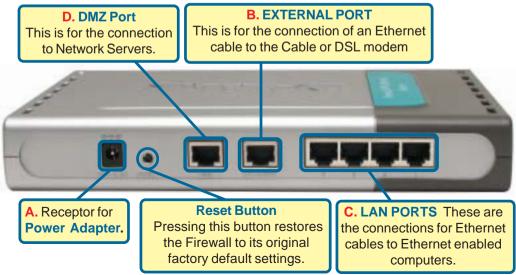
Connecting The DFL-80 Firewall To Your Network

- A. First, connect the power adapter to the receptor at the back panel of the DFL-80 and then plug the other end of the power adapter to a wall outlet or power strip. The Power LED will turn ON to indicate proper operation.
- **B.** 1. Power off your Cable or DSL modem; some devices may not have an on/off switch and will require you to unplug the power adapter. Now, the DFL-80 should be powered on and the Cable / DSL modem should be turned off.

2. Cable / DSL modem (Power Off) – DFL-80 (Power On) Connect an Ethernet cable to the Ethernet jack located on the Cable / DSL modem. After the Ethernet cable is securely connected, power on the Cable / DSL modem by turning on the unit or plugging in the power adapter.

3. Cable / DSL modem (Power On) – DFL-80 (Power On) Insert the other end of the Ethernet cable to the EXTERNAL PORT on the back panel of the DFL-80. The EXTERNAL LED light will illuminate to indicate proper connection. If the EXTERNAL LED is not illuminated, please go back to step B and repeat its instructions.

- C. Insert an Ethernet cable to LAN port 1 on the back panel of the DFL-80 and an available Ethernet port on the network adapter in the computer you will use to configure the DFL-80. The LED light for LAN Port 1 will illuminate to indicate proper connection. (Note: The LAN Ports on the DFL-80 are Auto-MDI/MDIX. Meaning you can use a straight-through or crossover-Ethernet cable to the LAN Ports.)
- D. DMZ port is used to connect to a DMZ network which contains Network Servers.



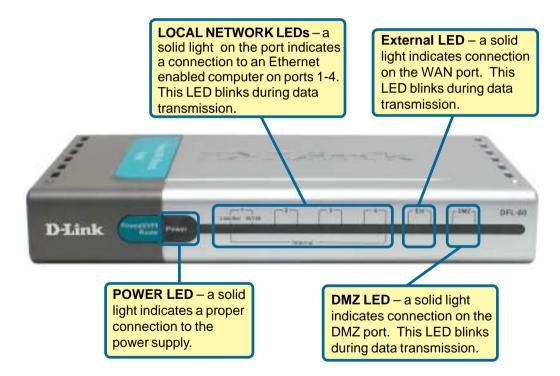


Restart Your Computer

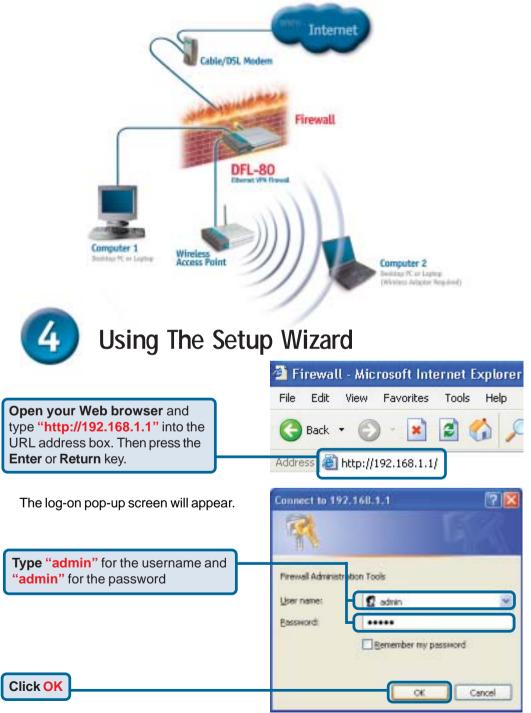


Connecting Additional Computers To The DFL-80

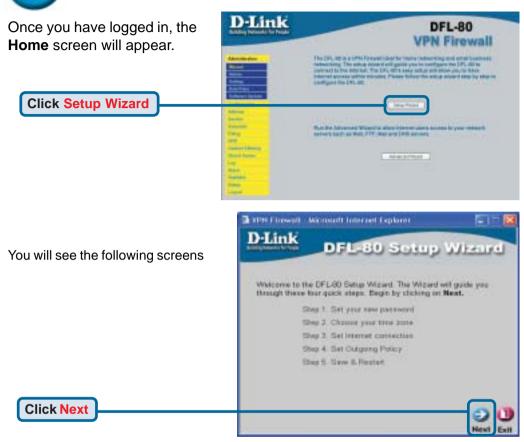
Using additional Ethernet (CAT5 UTP) cables, connect your Ethernet-equipped computers to the remaining Ethernet LAN ports on the back panel of the DFL-80



When you have completed the steps in this *Quick Installation Guide,* your connected network should look similar to this:







Set up your new password.

You have the option to establish a password, for the **Admin** account



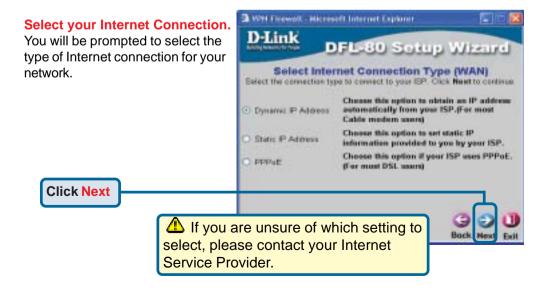
Click Next



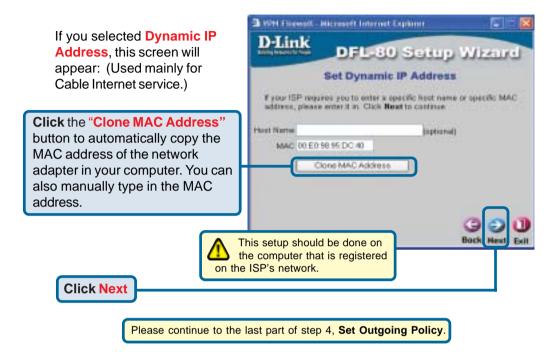
Choose your time zone based from GMT time. Click on **Assist** to select your time zone from the available selections.







The Setup Wizard (continued)



If your ISP requires a **Static IP Address**, and this option is selected, then this screen will appear:

Enter the IP address information originally provided to you by your ISP. You will need to complete all the required fields.

Writ Firewolt - Hicrosoft Internet Exp	kurer 🔚 🗖 🔯
D-Link DFL-80	Setup Wizard
Set Static IP /	Address
Enter in the static IP information provided to continue	to you by your EEP. Click Rest
WAN P Address	
WAN Subret Masis	
WAN Gateway Address	
DNS Address	
	900
	Bock Next Exit

Click Next

Please continue to the last part of step 4, Set Outgoing Policy.



The Setup Wizard (continued)

If your ISP uses **PPPoE** (Pointto-Point Protocol over Ethernet), and this option is selected, then this screen will appear: (Used mainly for DSL Internet service.)

Please be sure to remove any existing PPPoE client software installed on your computers.

Enter in the username and password provided to you by your ISP.

D-Link	DFL	80 Se	لا برين	lizard
	and the second	t PPPoE	-	en e
Enter in the PPP continue	E information pr			Cick Next 1
	User Name			2
	Patroword			-
. Mi	ily Papowerd			
			1	350
			8	ock Hext E

Click Next

Click Next

Set Outgoing Policy. You will be prompted to select the type of Internet connection for your network.

Make sure that **Any Services** is selected.





Your Setup is Complete!



Please wait for the DFL-80 to save the changes and reboot. When the DFL-80 has finished rebooting, you will be brought back to the main web page.

Click Restart



Test Internet Connection.

You will be returned to the main web page.

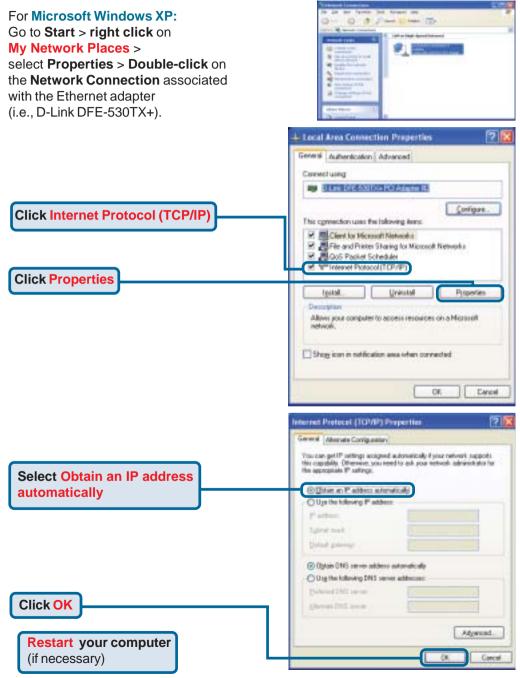


Then **relaunch** your Web browser (i.e., *Internet Explorer* or *Netscape Navigator*), to link to your favorite Web site to test your Internet connection.

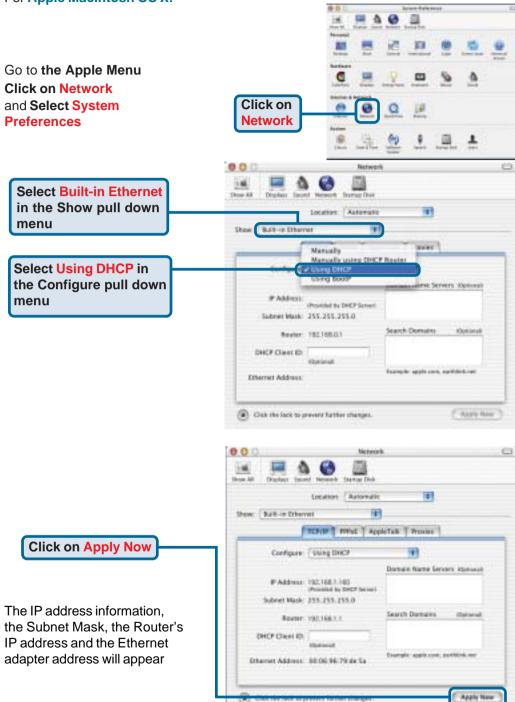
For additional settings or information, refer to the Manual located on the CD.

APPENDIX

To connect to the network, make sure the network adapter in your computer is configured properly. Here's how to configure the network adapter to obtain an IP address automatically for the DFL-80 Firewall.

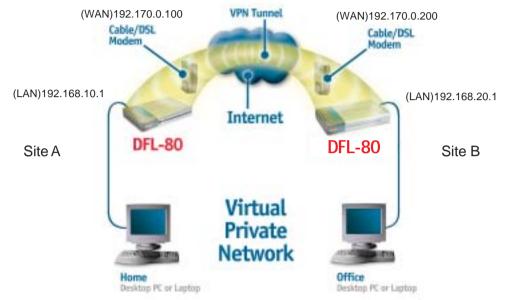


For Apple Macintosh OS X:



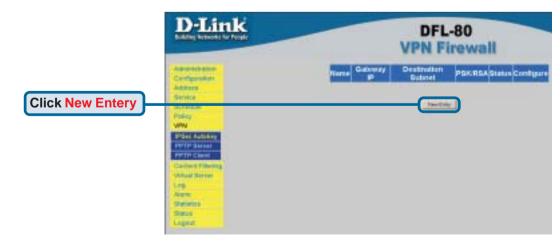
APPENDIX (continued)

This example will demonstrate how to create a Virtual Private Network (VPN) between two remote locations through the Internet. The VPN policy will use IPSec to securely send/receive encrypted data over the Internet. This example will consist of two DFL-80 VPN Firewalls with a simple setup to enable VPN. The two remote locations in this example will be called Site A and Site B. Both firewalls must already be set up and able to communicate with each other.



Please note the differences in the IP addresses for each site.

We will begin by configuring the DFL-80 at Site A . Start by going into the web configuration. Once in, go to the **VPN** menu. You should now be under **VPN>Autokey**



The IP Address information used for Site A and Site B are example IP Addresses Only.

Please fill in the appropriate information for Site A.

	VPN Auto Keyed Tunnel				
Name: Site_A	Name	SMR_A			
From Source: Internal	From Source 🐵 Internal O	DMZ			
Subnet/Mask:	Subnet / Mask	192,188,1	1.0 / 255.255.255.0		
192.168.10.0/255.255.255.0	To Destination				
Remote Gateway – Fixed	Remote Gateway – Fixed IP	192 178 8	218		
IP : 192.170.0.200	Subnet / Mask	192.168.2	8.0 / 295.295.295.0		
	 Remote Gateway Dynamic IP 	·			
Subnet/Mask:	Subnet / Mask	-	/ 295 295 295 9		
192.168.20.0/255.255.255.0	O Remote Client - Fixed IP or Dynamic IP				
Authentication Method:	Authentication Method	Predvan	× .		
Preshare	Preshared Key	123455			
Preshare Key: 123456	are Key: 123456 Encapsulation				
Encapsulation: Encryption	O Data Encryption + Authentication				
• •	Authentication Only				
(ESP)	Perfect Forward Secrecy				
	IPSec Lifetime	20101	Seconda		
	Schedule	None or	Press and the second		
Click OK	a strong the	11200000	OK Cancel		

123456 is an example of a preshare key, please fill in any secret preshare key you desire. Keep in mind that both sites require the same preshare key.

There should now be a VPN policy created for Site A. Site A is now complete, we will now configure Site B with the other DFL-80. Follow the same steps previously with Site A to create a VPN policy. Please change the appropriate IP information.

Name	Gateway IP	Destination Subnet	PSK/RSA	Status	Configure
Site_A	192.170.0.200	192.168.20.0	psk		Connect Modify Remove

Please fill in the appropriate information for Site B

Name Olta D	VPN Auto Keyed Tunnel	-			
Name: Site_B	Name	Sie.B			
From Source: Internal	From Source (2) Internal (2) D	MZ			
Subnet/Mask:	Subnet / Mask	192.168.20	0 / 2552552558		
192.168.20.0/255.255.255.0	To Destination				
Remote Gateway – Fixed IP:	Remote Gateway – Fixed IP	192.170.0.1	00		
192.170.0.100	Subnet / Mask	192.168.10	0 / 255 255 255 8		
Subnet/Mask:	Remote Gateway – Dynamic IP				
192.168.10.0/255.255.255.0	Subnet / Mask		1 255 255 255 1		
	O Remote Client - Fixed IP or Dynamic IP				
Authentication Method:	Authentication Method	Prestore	÷		
Preshare	Preshared Key	123454			
Preshare Key: 123456	Encapsulation				
Encapsulation: Encryption	O Data Encryption + Authentication	n			
(ESP)	Authentication Only				
	Perfect Forward Secrecy				
	IPSec Lifetime	20000	Seconds		
	Schedule	Note 🛩			
Click OK			DK. Cenori		

123456 is an example of a preshare key, please fill in any secret preshare key you desire. Keep in mind that both sites require the same preshare key.

There should now be a VPN policy created for Site B. After the VPN policies have been created for the two remote locations, click **Connect** at both Sites to enable the VPN policy. The two remote locations will authenticate and the VPN status should now say **Connected**. Congratulations, you have created a simple IPSec VPN tunnel. Site A and Site B should now be able to communicate with each other securely over the Internet. All IP traffic from the two Sites are now encrypted strongly with 168-bit 3DES encryption.

Name	Gateway IP	Destination Subnet			Configure
Site_B	192.170.0.100	192.168.10.0	psk	Disconnect	Connect Modify Remove

Technical Support

You can find software updates and user documentation on the D-Link website.

D-Link provides free technical support for customers within the United States and within Canada for the duration of the warranty period on this product.

U.S. and Canadian customers can contact D-Link technical support through our website, or by phone.

Tech Support for customers within the United States:

D-Link Technical Support over the Telephone: (877) 453-5465 24 hours a day, seven days a week.

D-Link Technical Support over the Internet: http://support.dlink.com email:support@dlink.com

Tech Support for customers within Canada:

D-Link Technical Support over the Telephone: (800) 361-5265 Monday to Friday 8:30am to 9:00pm EST

D-Link Technical Support over the Internet:

http://support.dlink.ca email:support@dlink.ca

