D-Link DI-804HV Broadband Hardware VPN Router

Manual



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Package Contents



Contents of Package:

- D-Link DI-804HV Broadband Hardware VPN Router
- Power Adapter 5V DC
- Ethernet (CAT5-UTP/Straight-Through) Cable
- Manual on CD
- Quick Installation Guide

Note: Using a power supply with a different voltage rating than the one included with the DI-804HV will cause damage and void the warranty for this product.

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

System Requirements For Configuration:

- Ethernet-Based Cable or DSL Modem
- Computer with Windows, Macintosh, or Linux-based operating system with an installed Ethernet adapter
- Internet Explorer version 6.x or Netscape Navigator version 6.x and above, with JavaScript enabled

Introduction

The D-Link DI-804HV is a 4-port Broadband Router with Virtual Private Network (VPN) functionality. It provides a complete solution for Internet surfing, office resources sharing, and secure access to remote corporate networks.. It is an ideal way to extend the reach and number of computers connected to your network.

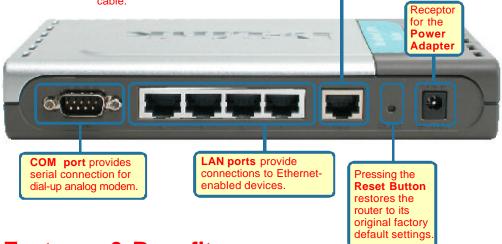
After completing the steps outlined in the *Quick Installation Guide* (included in your package) you will have the ability to share information and resources.

The DI-804HV is compatible with most popular operating systems, including Macintosh, Linux and Windows, and can be integrated into a large network.

Connections

All Ethernet ports auto-sense cable types to accommodate straight-through or cross-over cable.

WAN port is the connection for the Ethernet cable to the Cable or DSL modem



Features & Benefits

- Broadband modem and IP sharing Connects multiple computers to a broadband (cable or DSL) modem to surf the Internet
 - Auto-sensing Ethernet Switch Equipped with a 4-port auto-sensing Ethernet switch
- Hardware VPN Termination Device Supports up to 40 VPN Tunnels
- VPN Pass-Through supported
 Supports pass-through VPN sessions and allows you to setup VPN server and VPN clients
- Firewall Unwanted packets f

Unwanted packets from outside intruders can be blocked to protect your network

- DHCP server supported All of the networked computers can retrieve TCP/IP settings automatically from the DI-804HV
- Web-based configuration Configurable through any networked computer's web browser using Netscape or Internet Explorer

Features & Benefits continued

Access Control supported

Allows you to assign different access rights for different users.

Packet filter supported

Packet Filter allows you to control access to a network by analyzing the incoming and outgoing packets and letting them pass or halting them based on the IP address of the source and destination.

Virtual Server supported

Enables you to expose WWW, FTP and other services on your LAN to be accessible to Internet users.

User-Definable Application Sensing Tunnel

You can define the attributes, for instance opening special ports to allow packets to come through, to support special applications requiring multiple connections, such as Internet gaming, video conferencing, and Internet telephony. The DI-804HV can sense the application type and open a multiport tunnel for it.

DMZ Host supported

Allows a networked computer to be fully exposed to the Internet; this function is used when the special "application-sensing tunnel feature" is insufficient to allow an application to function correctly.

Introduction to Broadband Router Technology

A router is a device that forwards data packets from a source to a destination. Routers forward data packets using IP addresses and not a MAC address. A router will forward data from the Internet to a particular computer on your LAN.

The information that resides on the Internet gets moved around using routers. When you click on a link on a web page, you send a request to a server to show you the next page. The information that is sent and received from your computer is moved from your computer to the server using routers. A router also determines the best route that your information should follow to ensure that the information is delivered properly.

A router controls the amount of data that is sent through your network by eliminating information that should not be there. This provides security for the computers connected to your router, because computers from the outside cannot access or send information directly to any computer on your network. The router determines which computer the information should be forwarded to and sends it. If the information is not intended for any computer on your network, the data is discarded. This keeps any unwanted or harmful information from accessing or damaging your network.

Introduction to Firewalls

A firewall is a device that sits between your computer and the Internet that prevents unauthorized access to or from your network. A firewall can be a computer using firewall software or a special piece of hardware built specifically to act as a firewall. In most circumstances, a firewall is used to prevent unauthorized Internet users from accessing private networks or corporate LAN's and Intranets.

A firewall watches all of the information moving to and from your network and analyzes each piece of data. Each piece of data is checked against a set of criteria that the administrator configures. If any data does not meet the criteria, that data is blocked and discarded. If the data meets the criteria, the data is passed through. This method is called packet filtering.

A firewall can also run specific security functions based on the type of application or type of port that is being used. For example, a firewall can be configured to work with an FTP or Telnet server. Or a firewall can be configured to work with specific UDP or TCP ports to allow certain applications or games to work properly over the Internet.

Introduction to Local Area Networking

Local Area Networking (LAN) is the term used when connecting several computers together over a small area such as a building or group of buildings. LAN's can be connected over large areas. A collection of LAN's connected over a large area is called a Wide Area Network (WAN).

A LAN consists of multiple computers connected to each other. There are many types of media that can connect computers together. The most common media is CAT5 cable (UTP or STP twisted pair wire.) Each computer must have a Network Interface Card (NIC), which communicates the data between computers. A NIC is usually a 10Mbps network card, or 10/100Mbps network card, or a wireless network card. Wireless Local Area Networks (WLANs) do not use wires; instead they communicate over radio waves.

Most networks use hardware devices such as hubs or switches that each cable can be connected to in order to continue the connection between computers. A hub simply takes any data arriving through each port and forwards the data to all other ports. A switch is more sophisticated, in that a switch can determine the destination port for a specific piece of data. A switch minimizes network traffic overhead and speeds up the communication over a network.

Networks take some time in order to plan and implement correctly. There are many ways to configure your network. You may want to take some time to determine the best network set-up for your needs.

Introduction to Virtual Private Networking

Virtual Private Networking (VPN) uses a publicly wired network (the Internet) to securely connect two different networks as if they were the same network. For example, an employee can access a corporate network from home using VPN, allowing the employee to access files, databases, and other networked resources. Here are several different implementations of VPN that can be used.

Point-to-Point Tunneling Protocol (PPTP)

PPTP uses proprietary means of connecting two private networks over the Internet. PPTP is a way of securing the information that is communicated between networks. PPTP secures information by encrypting the data inside of a packet.

IP Security (IPSec)

IPSec provides a more secure network-to-network connection across the Internet or a Wide Area Network (WAN). IPSec encrypts all communication between the client and server whereas PPTP only encrypts the data packets.

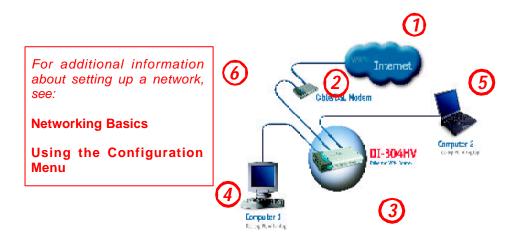
Both of these VPN implementations are used because there is not a standard for VPN server software. Because of this, each ISP or business can implement its own VPN network making interoperability a challenge.

LEDS

LED stands for Light-Emitting Diode. The **DI-804HV** has the following LEDs as described below:

LED	LED Activity
Power	A steady light indicates a connection to a power source
M1 LED	Flashes once per second to indicate an active system
M2 LED	Lights up when the device has an Internet connection
WAN	A solid light indicates connection on the WAN port. This LED blinks during data transmission
СОМ	A solid light indicates a connection to an external dial-up analog modem
LOCAL NETWORK (Ports 1-4)	A solid light indicates a connection to an Ethernet-enabled computer on ports 1-4. This LED blinks during data transmission

Getting Started



For a typical network setup in a home or small office (as shown above), please do the following:



You will need broadband Internet access (a Cable or DSL subscription line into your home or office).



Consult with your Cable or DSL provider for proper installation of the modem.



Connect the Cable or DSL modem to the DI-804HV wireless broadband router (see the Quick Installation Guide included with the DI-804HV.)



If you are connecting a desktop computer to your network and you need an Ethernet connection, you can install the D-Link *DFE-530TX*+ Ethernet adapter into an available PCI slot. (See the Quick Installation Guide included with the DFE-530TX+.)



If you are connecting a laptop computer to your network, install the drivers for the Ethernet Cardbus adapter (e.g., D-Link DFE-690TXD) into a laptop computer.(See the Quick Installation Guide included with the DFE-690TXD.)



You may connect an analog modem (optional) to function as a backup to the DI-804HV. To use a backup modem, you must have dial-up service.

Whenever you want to configure your network or the DI-804HV, you can access the Configuration Menu by opening the web-browser (i.e., Internet Explorer or Netscape Navigator) and typing in the IP Address of the DI-804HV. The DI-804HV default IP Address is shown below:

- Open the web browser
- Type in the **IP Address** of
 - the DI-804HV (http://192.168.0.1)

Note: If you have changed the default IP Address assigned to the DI-804HV, make sure to enter the correct IP Address. Fannert In 1921160.0.1 7 X

The factory default **User name** is **admin** and the default **Password** is blank (empty). It is recommended that you change the admin password for security purposes. Please refer to **Tools>Admin** to change the admin password.

Home > Wizard





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The Home>Wizard screen will appear. Please refer to the Quick Installation Guide for more information regarding the Setup Wizard.



Clicking **Apply** will save changes made to the page



Clicking **Cancel** will clear changes made to the page



Clicking **Help** will bring up helpful information regarding the page



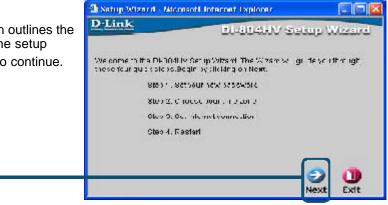
Clicking **Restart** will restart the router. (Necessary for some changes.)

Using the Configuration Menu Setup Wizard

D-Link **DI-804HV** Once you have logged in, the **Broodbond Hordware VPN Router** Home screen will appear. Advanced Tools Status Help Home The 2016 Strate Dimonstrational secure March School and security and small measure taken in gradient ways are a with energy and a carbon size of DRMMs connection your DRA (defined School english) for 2016 Straty solary statistication and under a security measure frame the March 1990 Statistication and strategy and the statistication of the Statist Misard serily interesting by we can be represented and WAN **Click Run Wizard** LRI Tur Wead DHOR Θ Help **WPN**

The welcome screen outlines the steps to complete the setup wizard. Click **Next** to continue.

Click Next



Using the Configuration Menu Setup Wizard > Set Password



Old Password- This information is masked.

New Password- Type in the new password for the **admin** account.

Reconfirm- Type in the new password again to confirm. Click **Next** to continue with the Setup Wizard.

Setup Wizard > Time Zone

Select the appropriate time zone for your location-

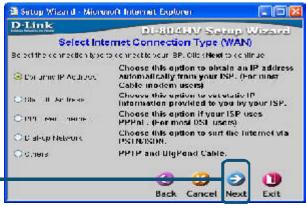
Select the proper time zone. Selections can be made by clicking on the drop down list. Click **Next** to continue.



Setup Wizard > Connection Type (WAN)

Select Your Internet Connection-

You will be prompted to select the type of internet connection for your router. Choose the appropriate selection and click **Next** to continue.



Click Next

Click Next

If you are unsure of which setting to select, please contact your Internet Service Provider.

Select **Others** only if you use PPTP in Europe or Big Pond Cable in Australia.

Setup Wizard > Set Dynamic IP Address

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Click Next		0		0
		Back	Cancel Next	Exit

If your ISP uses **Dynamic IP Address**, this screen will appear: **(Used mainly for Cable Internet service.)**

Host Name-	Host name is the section where you input the name of your ISP. This section is optional and is not required to be filled in.
MAC Address-	Each network adapter has a discrete Media Access Control (MAC) address. Note that some computer and peripherals may already include built-in network adapter.
Clone MAC Address-	By clicking on Clone MAC Address, the DI-804HV will auto- matically copy the MAC address of the network adapter in your computer. You can also manually type in the MAC address. Click Next to continue.

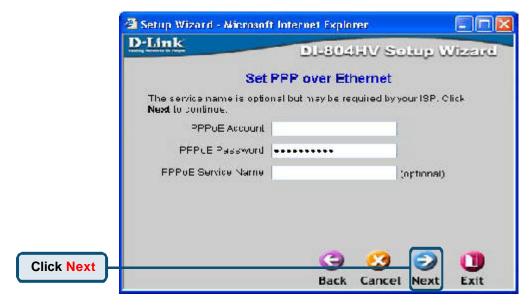
Setup Wizard > Set Static IP Address

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	WAN Gateway	J.U.L.U		
	Primary DNS	J.U.C.U		
	Secondary DNS	J.J.C.U		
Click Next		G	63	0
		Back	Cancel	Next Exit

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

WAN IP Address-	If your ISP requires a Static IP Address, and this option is se- lected, then this screen appear. Enter the IP address informa- tion originally provided to you by your ISP. You will need to complete all the required fields.
WAN Subnet Mask-	The subnet for the DI-804HV is preconfigured to 255.255.255.0. Configurations can be made in, but not recommended. This feature is for advanced users.
WAN Gateway-	This information is provided by your ISP.
Primary DNS-	The Primary DNS can be found by contacting the ISP.
Secondary DNS-	The Secondary DNS can be found by contacting the ISP.

Using the Configuration Menu Setup Wizard > PPPoE



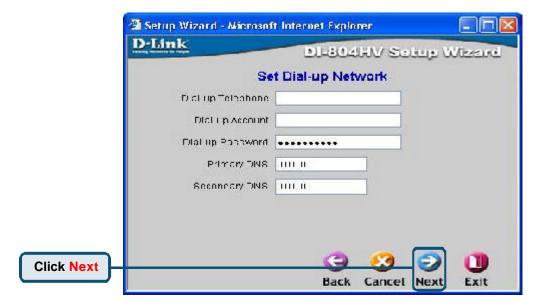
If your ISP uses **PPPoE** (Point-to-Point Protocol over Ethernet), and this option is selected, then this screen will appear: (Used mainly for DSL Internet service.)

PPPoE Account- Enter in the username provided to you by your ISP.

PPPoE Password- Enter in the password provided to you by your ISP.

PPPoE ServiceEnter in the name of your service provider. This is an optional**Name-**field and is not necessary to be filled in.

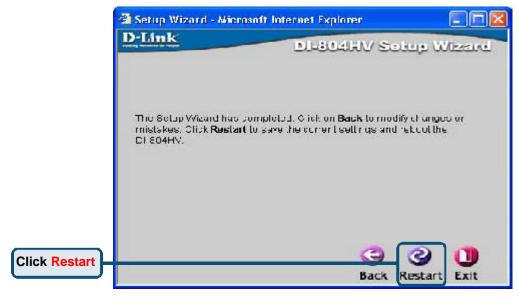
Using the Configuration Menu Setup Wizard



Configure this section only if you have an analog dial-up account. Otherwise click **Next** to skip.

Dial-up Telephone-	Enter the telephone number to connect to your ISP.
Dial-up Account-	This information is provided by your ISP. The Dial-up Account is also known as username.
Dial-up Password-	Enter in the password to log into your Dial-up account.
Primary DNS-	The Primary DNS can be found by contacting the ISP.
Secondary DNS-	The Secondary DNS can be found by contacting the ISP.

Using the Configuration Menu Setup Wizard



Back- Click on Back button to go back to previous page.

Restart- Click on **Restart** button to finalize the settings made.

Exit- Click on Exit button to end the Setup Wizard without saving any changes.

Using the Configuration Menu Home > WAN

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Choose WAN Type

WAN stands for *Wide Area Network*. In this case WAN represents the mode in which you connect to the Internet. If you are uncertain, please ask your ISP which of the following represents your connection mode to the Internet:

Dynamic IP Address-	Obtain an IP address from your ISP automatically (mainly for Cable users)
Static IP Address-	Your ISP assigns you a Static IP Address
PPPoE-	Some ISPs require the use of PPPoE to connect to their services (mainly for DSL users)
Dial-up Network -	Dial-up users can select this option to connect to their ISP through an analog dial-up modem if broadband connectivity
Others-	is unavailable.
PPTP-	For use in Europe only

Big Pond Cable- For use in Australia only

Using the Configuration Menu Home > WAN > Dynamic IP Address



Most Cable modem users will select this option to obtain an IP Address automatically from their ISP (Internet Service Provider).

Host Name-	This is optional, but may be required by some ISPs. The l name is the device name of the Router.	host
MAC Address- Clone	The default MAC Address is set to the WAN's physical interf MAC address on the Router.	face
MAC Address-	This feature will copy the MAC address of the Ethernet card, a replace the WAN MAC address of the Router with this Ether card MAC address. It is not recommended that you change default MAC address unless required by your ISP.	rnet
Primary DNS		
Address-	Input the primary DNS address provided by your ISP	
Secondary DNS		
Address-	(Optional) Input the Secondary DNS address provided by your I	ISP.
MTU-	<i>Maximum Transmission Unit</i> ; default is 1500; you may need change the MTU to conform to your ISP.	to to
Auto-reconnect -	If enabled, the Broadband Router will automatically connect your ISP after your system is restarted or if the connection dropped.	
Auto-backup -	Enabling this feature will connect your router to the Internet us a dial-up service if your broadband connection becomes una able. A subscription to a dial-up service is required for the a	vail-
	backup to work. 2	21

Home > WAN > Static IP Address

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If you use a Static IP Address, you will input information here that your ISP has provided to you.

IP Address-	Input the IP Address provided by your ISP
Subnet Mask-	Input the Subnet Mask provided by your ISP
ISP Gateway Address-	Input the Gateway address provided by your ISP
Primary DNS Address-	Input the primary DNS address provided by your ISP
Secondary DNS Address-	(Optional) Input the Secondary DNS address provided by your ISP.
MTU-	<i>Maximum Transmission Unit</i> ; default is 1500; you may need to change the MTU to conform to your ISP.

Home > WAN > PPPoE

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Most DSL users will select this option to obtain an IP address automatically from their ISP through the use of PPPoE.

User Name-	Your PPPoE username provided by your ISP
Password-	Your PPPoE password is provided by your ISP
Service Name-	(Optional) Check with your ISP for more information if they require the use of service name.
IP Address-	(Optional) Enter in the IP Address if you are assigned a static PPPoE address.
Primary DNS	
Address-	You will get the DNS IP automatically from your ISP but you may enter a specific DNS address that you want to use instead. (Optional) Input the secondary DNS address
Maximum	
Idle Time-	Enter a maximum idle time during which Internet connection is maintained during inactivity. To disable this feature, enable <i>Autoreconnect</i> .
MTU-	<i>Maximum Transmission Unit</i> ; default is 1492; you may need to change the MTU to conform to your ISP.
	22

Home > WAN > Dial-up Network

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Most Dial-up users will select this option to connect to their ISP through an analog dial-up modem. This feature can be used as a back-up when your broadband connectivity is unavailable.

Dial-up Telephone -	Telephone number to connect to your ISP
Dial-up Account-	Username provided by your ISP
Dial-up Password-	Password provided by your ISP
Primary DNS- Seconday DNS-	If the settings are configured as "0.0.0.0," they will be auto- matically assigned upon connection.
Assigned IP Address-	(Optional) Enter in the IP Address if you are assigned a static IP address.
Extra Settings-	This setting is used to optimize the communication quality between the ISP and your analog dial-up modem. (Initialization string) - optional.
Maximum Idle Time-	Enter a maximum idle time during which Internet connection is maintained during inactivity. To disable this feature, enable <i>Auto-reconnect</i> .
Baud Rate-	The communication speed between the DI-804HV and your modem.
Auto-reconnect -	If enabled, the Broadband Router will automatically connect to your ISP after your system is restarted or if the connection is dropped. 24

Using the Configuration Menu Home > WAN > PPTP



Point-to-Point Tunneling Protocol (PPTP) is a WAN connection used in Europe and Russia.

- My IP Address- Enter the IP Address
- My Subnet Mask- Enter the Subnet Mask
- Server IP Address- Enter the Server IP Address
- **PPTP Account-** Enter the PPTP account name
- **PPTP Password-** Enter the PPTP password
- Connection ID- (Optional) Enter the connection ID if required by your ISP
- **Maximum** Idle Time-Enter a maximum idle time during which Internet connection is maintained during inactivity. To disable this feature, enable *Auto*reconnect.

Home > WAN > BigPond Cable

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Dynamic IP Address for BigPond is a WAN connection used in Australia.

User Name-	Enter in the username for the BigPond account
Password-	Enter the password for the BigPond account
Login Server IP-	(Optional) enter the Login Server name if required
Renew IP forever-	If enabled, the device will automatically connect to your ISP after your unit is restarted or when the connection is dropped.

Home > LAN

D ·Link				-804HV	outer	LAN (Local Area Network). This is considered your internal network.
Wisard Wisard WAN LAN DHCP VPN	Home LAN Setting The Factoria 1 Anton 3 Inc. Visa 3 In	n	Tools n* e.cel	Status V Apply	Help	These are the IP settings of the LAN interface for the DI- 804HV. These settings may be referred to as Private settings. You may change the LAN IP address if needed. The LAN IP address is private to your internal network and cannot be seen on the Internet.

LAN IP Address-	The IP address of the LAN interface. The default IP address is: 192.168.0.1
Subnet Mask-	The subnet mask of the LAN interface. The default subnet mask is 255.255.255.0.
Domain Name-	(Optional) The name of your local domain

Using the Configuration Menu Home >DHCP

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DHCP stands for *Dynamic Host Control Protocol*. The DI-804HV has a built-in DHCP server. The DHCP Server will automatically assign an IP address to the computers on the LAN/private network. Be sure to set your computers to be DHCP clients by setting their TCP/IP settings to "Obtain an IP Address Automatically." When you turn your computers on, they will automatically load the proper TCP/IP settings provided by the DI-804HV. The DHCP Server will automatically allocate an unused IP address from the IP address pool to the requesting computer. You must specify the starting and ending address of the IP address pool.

DHCP Server-	Enable or disable the DHCP service.
Starting IP Address-	The starting IP address for the DHCP server's IP assignment.
Ending IP Address-	The ending IP address for the DHCP server's IP assignment.
Lease Time-	The length of time for the DHCP lease.
DHCP Clients List-	Lists the DHCP clients connected to the DI-804HV. Click Refresh to update the list. The table will show the Host Name, IP Address, and MAC Address of the DHCP client computer.

Using the Configuration Menu Home >VPN Settings

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VPN Settings are settings that are used to create virtual private tunnels to remote VPN gateways. The tunnel technology supports data confidentiality, data origin, authentication and data integrity of network information by utilizing encapsulation protocols, encryption algorithms, and hashing algorithms.

VPN -	Check here to enable VPN tunnels. When you are not using the VPN feature, it is best to keep VPN disabled	
NetBIOS broadcast-	Enable this to allow NetBIOS braodcast over the VPN tunnels.	
Max. number of tunnels-	Select the maximum number of allowable tunnels. It is recommended that you select between 1 to 5 for optim performance.	-
Tunnel Name-	Create a name for the tunnel.	
Method-	IPSec VPN supports two kinds of key-obtained methor manual key and automatic key exchange. Manual key approach indicates that the two endpoint VPN gatewa require setting up authentication and encryption key b the Administrator manually. However, IKE approach wi perform automatic Internet key exchange. Admins of b endpoint gateways will only need to set the same pre-shared key.	/ iys iy ill
More-	For more in depth configuration to adjust manual key or IKE method settings, click More.	

Home >VPN Settings > Tunnel > Method>IKE

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Tunnel Name- Current tunnel name.

Aggressive Mode-Enabling this mode will accelerate establishing tunnel, but the device will have less security.

Local Subnet-The subnet of the VPN gateway's local network. It can be a host, a partial subnet or a whole subnet.

Local Netmask- Local netmask combined with local subnet to form a subnet domain.

Remote Subnet- The subnet of the remote VPN gateway's local network. It can be a host, a partial subnet or a whole subnet.

Remote Netmask- The subnet of the remote VPN gateway's local network. It can be a host, a partial subnet or a whole subnet.

Remote Gateway- The WAN IP address of remote VPN gateway.

Preshared Key-The first key that supports IKE mechanism of both VPN gateways for negotiating further security keys. The pre-shared key must be the same for both endpoint gateways.

IKE Proposal index- Click the button to setup a set of frequent-used IKE proposals and select from the set of IKE proposals for the tunnel.

IPSec Proposal Click the button to setup a set of frequent-used IPSec proposals and select from the set of IPSec proposals for the tunnel.

Home >VPN Settings > Tunnel > Method > IKE > Select IKE Proposal

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IKE Proposal index- A list of selected proposal indexes from the IKE proposal pool listed below.

Proposal Name- This is the name used to classify the IKE proposal.

DH Group- There are three groups can be selected: group 1 (MODP768), group 2 (MODP1024), group 5 (MODP1536).

- **Encrypt algorithm-** There are two algorithms that can be selected: 3DES and DES.
- Auth algorithm- There are two algorithms that can be selected: SHA1 and MD5.

Home >VPN Settings > Tunnel > Method > IKE > Select IKE Proposal Continued...

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Life Time-	Enter in the life time value.
Life Time Unit-	There are two units that can be selected: second and KB.
Proposal ID-	The identifier of IKE proposal can be chosen for adding corresponding proposal to the dedicated tunnel.
Add to-	Click it to add the chosen proposal indicated by proposal ID to IKE Proposal index list.

Home >VPN Settings > Tunnel > Method > IKE > Select IPSEC Proposal

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IPSec Proposal index-	A list of selected proposal indexes from the IPSec proposal pool listed below.
Proposal Name-	This is the name used to classify the IPSec Proposal
DH Group-	There are three groups that can be selected: group 1 (MODP768), group 2 (MODP1024), group 5 (MODP1536).
Encap protocol-	There are two protocols that can be selected: ESP and AH.
Encrypt algorithm-	There are two algorithms that can be selected: 3DES and DES.
Auth algorithm-	There are two algorithms that can be selected: SHA1and MD5.

Home >VPN Settings > Tunnel > Method > IKE > Select IPSEC Proposal Continued...

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Life Time-	Enter in a life time value.
Life Time Unit-	There are two units that can be selected: second and KB.
Proposal ID-	The identifier of IPSec proposal can be chosen for adding the proposal to the dedicated tunnel.
Add to-	Click it to add the chosen proposal indicated by proposal ID to IPSec Proposal index list.

Home >VPN Settings > Tunnel > Manual

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Tunnel Name- Current tunnel name.

Aggressive Mode-Enabling this mode will accelerate establishing tunnel, but the device will have less security.

Local Subnet- The subnet of the VPN gateway's local network. It can be a host, a partial subnet or a whole subnet.

Local Netmask- Local netmask combined with local subnet to form a subnet domain.

Remote Subnet- The subnet of the remote VPN gateway's local network. It can be a host, a partial subnet or a whole subnet.

Remote Netmask- The subnet of the remote VPN gateway's local network. It can be a host, a partial subnet or a whole subnet.

Remote Gateway- The WAN IP address of remote VPN gateway.

Method- The set of rules applied when connecting to the VPN gateway.

Local SPI- The value of the local SPI should be set in hex format.

Remote SPI- The value of the remote SPI should be set in hex format.

Home >VPN Settings > Tunnel > Manual Continued...

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Encapsulation Protocol-	There are two protocols that can be selected: ESP and AH.
Encryption Algorithm-	There are two algorithms that can be selected: 3DES and DES.
Encryption Key-	For DES, the encryption key is 8 bytes (16 alpha-numeric characters). For 3DES, the encryption key is 24 bytes (48 alpha-numeric characters).
Authentication Algorithm-	There are two algorithms that can be selected: SHA1 and MD5.
Authentication Key-	For MD5, the authentication algorithm is16 bytes (32 alpha- numeric characters). For SHA1, the authentication algorithm is 20 bytes.(40 alpha- numeric characters).
Life Time-	Enter in the life time value.
Life Time Unit-	There are two units that can be selected: Second and KB.

Using the Configuration Menu Home >VPN Settings > Dynamic VPN Tunnel

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VPN Settings - IKE-	There are three parts that are necessary to setup the configuration of IKE for the dedicated tunnel: basic setup, IKE proposal setup, and IPSec proposal setup. Basic setup includes the setting of following items: local subnet, local netmask, remote subnet, remote netmask, remote gateway, and pre-shared key. The tunnel name is derived from previous page of VPN setting. IKE proposal setup includes the setting of a set of frequent-used IKE proposals and selecting from the set of IKE proposals.

- Tunnel Name- Current tunnel name.
- **Dynamic VPN-** This feature works with a VPN software client so the DI-804HV does not need to know the IP address of the remote clients.
- Aggressive Mode-Enabling this mode will accelerate establishing the tunnel, but the device will have less security.
- Local Subnet-The subnet of the VPN gateway's local network. It can be a host, a partial subnet or a whole subnet.
- **Local Netmask-** The netmask of the VPN gateway's local network.

Home >VPN Settings > Dynamic VPN Tunnel Continued...

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Preshared Key-The first key that supports IKE mechanism of both VPN
gateways for negotiating further security keys. The pre-
shared key must be the same for both endpoint gateways.IKE Proposal index-Click the button to setup a set of frequent-used IKE
proposals and select from the set of IKE proposals for the
dedicated tunnel.IPSec Proposal
index-Click the button to setup a set of frequent-used IPSec
proposals and select from the set of IPSec proposals for the

dedicated tunnel.

Using the Configuration Menu Home >VPN Settings > Dynamic VPN Tunnel > Set IKE Proposal

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IKE Proposal index-	A list of selected proposal indexes from the IKE proposal pool
•	listed below.

Proposal Name- This is the name used to classify the IKE proposal.

DH Group- There are three groups can be selected: group 1 (MODP768), group 2 (MODP1024), group 5 (MODP1536).

- **Encrypt algorithm-** There are two algorithms that can be selected: 3DES and DES.
- Auth algorithm- There are two algorithms that can be selected: SHA1 and MD5.

Home >VPN Settings > Dynamic VPN Tunnel > Set IKE Proposal Continued...

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Life Time-	Enter in the life time value.
Life Time Unit-	There are two units that can be selected: second and KB.
Proposal ID-	The identifier of IKE proposal can be chosen for adding corresponding proposal to the dedicated tunnel.
Add to-	Click it to add the chosen proposal indicated by proposal ID to IKE Proposal index list.

Home >VPN Settings > Dynamic VPN Tunnel > Set IPSEC Proposal

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IPSec Proposal index-	A list of selected proposal indexes from the IPSec proposal pool listed below.
Proposal Name-	This is the name used to classify the IPSec proposal.
DH Group-	There are three groups that can be selected: group 1 (MODP768), group 2 (MODP1024), group 5 (MODP1536).
Encap protocol-	There are two protocols that can be selected: ESP and AH.
Encrypt algorithm-	There are two algorithms that can be selected: 3DES and DES.
Auth algorithm-	There are two algorithms that can be selected: SHA1 and MD5.

Home >VPN Settings > Dynamic VPN Tunnel > Set IPSEC Proposal *Continued...*

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Life Time- Enter in a life time value.

Life Time Unit- There are two units that can be selected: second and KB.

Proposal ID- The identifier of IPSec proposal can be chosen for adding the proposal to the dedicated tunnel.

Add to-Click it to add the chosen proposal indicated by proposal ID to IPSec Proposal index list.

Using the Configuration Menu Home >VPN Settings > L2TP Server Setting

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Enable L2TP Server- Click to enable the L2TP Server function.

Virtual IP of L2TP Enter your Virtual IP address to access the L2TP server. Server-

Authentication Protocol-	Select one of the following authentication protocols: PAP, CHAP, MSCHAP.
Tunnel Name-	Current tunnel name.
User Name-	Enter in the username for the L2TP account.
Password-	Enter in the password for the L2TP account.

Using the Configuration Menu Home >VPN Settings >PPTP Server Setting

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Enable PPTP Click to enable the PPTP Server function.

Server-

Virtual IP of PPTP Enter your Virtual IP address to access the PPTP server. Server-

AuthenticationSelect one of the following authentication protocols: PAP,
CHAP, MSCHAP.

Tunnel Name- Current tunnel name.

User Name- Enter in the username for the PPTP account.

Password- Enter in the password for the PPTP account.

Advanced > Virtual Server

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The DI-804HV can be configured as a virtual server so that remote users accessing Web or FTP services via the public IP address can be automatically redirected to local servers in the LAN (Local Area Network).

The DI-804HV firewall feature filters out unrecognized packets to protect your LAN network so all computers networked with the DI-804HV are invisible to the outside world. If you wish, you can make some of the LAN computers accessible from the Internet by enabling *Virtual Server*. Depending on the requested service, the DI-804HV redirects the external service request to the appropriate server within the LAN network.

The name referencing the virtual service.
The server computer in the LAN network that will be providing the virtual services.
The protocol used for the virtual service.
The port number of the service used by the Private IP computer.
The port number on the WAN side that will be used to access the virtual service.
Select Always , or choose From and enter the time period during which the virtual service will be available

Advanced > Application

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Some applications require multiple connections, such as Internet gaming, video conferencing, Internet telephony and others. These applications have difficulties working through NAT (Network Address Translation). *Special Applications* makes some of these applications work with the DI-804HV. If you need to run applications that require multiple connections, specify the port normally associated with an application in the **Trigger** field, then enter the public ports associated with the trigger port into the **Incoming Ports** field.

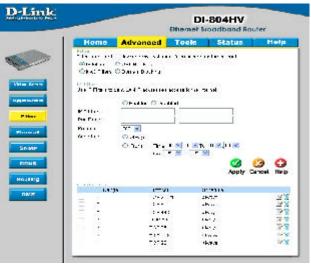
At the bottom of the screen, there are already defined special applications. To select the pre-defined application you want to use, click on the corresponding check box next to the application name. If the mechanism of Special Applications fails to make an application work, try using DMZ host instead.

Note! Only one PC can use each Special Application tunnel.

- Enabled- Select to activate the policy
- **Trigger Port-** This is the port used to trigger the application. It can be either a single port or a range of ports.
- **Public Ports-** This is the port number on the WAN side that will be used to access the application. You may define a single port or a range of ports. You can use a comma to add multiple ports or port ranges.

Using the Configuration Menu Advanced > IP Filter

Use IP (Internet Protocol) filters to allow or deny computers access to the Internet based on their IP address.



IP Filter-

Use IP Filters to deny LAN IP addresses access to the internet

Enabled or Disabled-

Click **Enabled** to apply the filter policy or click **Disabled** to enter an inactive filter policy (You can reactivate the policy later.)

IP Address-

Enter in the IP address range of the computers that you want the policy to apply to. If it is only a single computer that you want the policy applied to, then enter the IP address of that computer in the Start Source IP and leave the End Source IP blank.

Port Range-

Enter in the port range of the TCP/UDP ports that you want the policy to apply to. If it is only a single port that you want the policy applied to, then enter the port number in the Start Port field and leave the End Port field blank. If you want to use all the ports, you can leave the port range empty.

Schedule-

Select **Always**, or choose **From** and enter the time period during which the IP filter policy will be in effect.

Advanced > MAC Filters

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MAC (Media Access Control) Filters are used to deny or allow LAN (Local Area Network) computers from accessing the Internet and network by their MAC address.

At the bottom of the screen, there is a list of MAC addresses from the DHCP client computers connected to the DI-804HV. To use them, select one from the drop down list. Then click the "Clone" button followed by the "Apply" button and the MAC address will be added to the filter list.

Disabled MAC Filter- Select this option if you do not want to use MAC filters.

Only allow computers with MAC address listed below to access the network-Select this option to only allow computers that are in the list to access the network and Internet. All other computers will be denied access to the network and Internet.

Only deny computers with MAC address listed below to access the network-Select this option to only deny computers that are in the list to access the network and Internet. All other computers will be allowed access to the network and Internet.

MAC Address- Enter the MAC Address of the client that will be filtered

Using the Configuration Menu Advanced > URL Blocking

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Use URL Blocking to deny LAN computers from accessing specific web sites by its URL. A URL is a specially formatted text string that defines a location on the Internet. If any part of the URL contains the blocked word, the site will not be accessible and the web page will not display.

Disabled URL Blocking-

Select this option if you do not want to use URL Blocking.

Advanced > Domain Blocking

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Use Domain Blocking to allow or deny computers access to specific Internet domains whether it is through www, ftp, snmp, etc.

Disabled Domain Blocking-

Select this option if you do not want to use Domain Blocking.

Allow users to access all domains except "Blocked Domains"-

Select this option to allow users to access the specified Internet domains listed below. Users will be denied access to all other Internet domains.

Deny users to access all domains except "Permitted Domains"-

Select this option to deny users to access the specified Internet domains listed below. Users will be allowed access to all other Internet domains.

Advanced > Firewall

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Firewall Rules is an advance feature used to deny or allow traffic from passing through the device. It works in the same way as IP Filters with additional settings. You can create more detailed rules for the device.

Enabled or Disabled-

Click **Enabled** to apply the filter policy or click **Disabled** to enter an inactive filter policy (You can reactivate the policy later).

Name-

Enter the name of the Firewall Rule.

Action-

Select Allow or Deny to allow or deny traffic to pass through the DI-804HV.

Source-

Choose between a LAN or WAN source. An asterisk signifies the selection of both sources.

IP Start-

The starting IP address for the filter policy. Leaving the field blank selects all IPs.

IP End-

The ending IP address for the filter policy. Leaving the field blank sleects all IPs.

Destination-

Choose between a LAN or WAN destination. An asterisk signifies the selection of both destinations.

Using the Configuration Menu Advanced > Firewall Continued

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IP Address-

Enter in the IP address range of the computers that you want the policy to apply to. If it is only a single computer that you want the policy applied to, then enter the IP address of that computer in the Start Source IP and leave the End Source IP blank.

Protocol-

Select one of the following protocols: TCP, UDP, or ICMP

Port Range-

Enter in the port range of the TCP/UDP ports that you want the policy to apply to. If it is only a single port that you want the policy applied to, then enter the port number in the Start Port field and leave the End Port field blank. If you want to use all the ports, you can leave the port range empty.

Schedule-

Select **Always**, or choose **From** and enter the time period during which the virtual service will be available

Using the Configuration Menu Advanced > SNMP

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SNMP (Simple Network Management Protocol) is a widely used network monitoring and control protocol that reports activity on each network device to the administrator of the network. SNMP can be used to monitor traffic and statistics of the DI-804HV. The DI-804HV supports SNMP v1 or v2c

Enable SNMP- (Simple Network Management Protocol)

Local- LAN (Local Area Network)

Remote- WAN (Wide Area Network)

- Get Community-Enter the password **public** in this field to allow "Read only" access to network administration using SNMP. You can view the network, but no configuration is possible wth this setting.
- Set Community-Enter the password **private** in this field to gain "Read and Write" access to the network using SNMP software. The administrator can configure the network with this setting.
- SNMP v1- Simple Network Management Protocol (SNMP) is an application layer protocl that facilitates the exchange of management information between nework devices.
- SNMP v2- Enhanced version of SNMP v1 with additional protocol operations such as UDP, IP, CLNS, DDP, and IPX.

Tools > DDNS



DDNS (Dynamic Domain Name System) keeps dynamic IP addresses (e.g., IP addresses assigned by a DHCP capable router or server) linked to a domain name. Users who have a Dynamic DNS account may use this feature on the DI-804HV.

DDNS-	When an IP address is automatically assigned by a DHCP server, DDNS automatically updates the DNS server. Select Disabled or Enabled
Provider-	Select from the pull-down menu
Host Name-	Enter the Host name
Username/Email-	Enter the username or email address
Password/Key-	Enter the password or key

Advanced > Routing

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Dynamic Routing-	Dynamic Routing Settings allow the VPN Router to route IP packets to another network automatically. The RIP protocol is applied, and broadcasts the routing information to other routers on the network regularly. By default, it is set to disable. Check to enable (RIPv1 / RIPv2) protocol.
RIP v1-	Protocol in which the IP address is routed through the internet.
RIP v2-	Enhanced version of RIP v1with added features such as Au- thentication, Routing Domain, Next Hop Fowarding, and Subnet- mask Exchange.

Advanced > DMZ

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If you have a computer that cannot run Internet applications properly from behind the DI-804HV, then you can allow that computer to have unrestricted Internet access. Enter the IP address of that computer as a DMZ (Demilitarized Zone) host with unrestricted Internet access. Adding a client to the DMZ may expose that computer to a variety of security risks; so only use this option as a last resort.

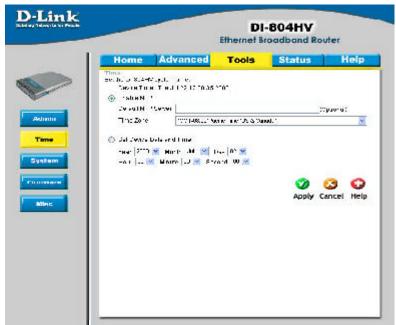
Tools> Admin

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You can change the admin and user passwords here. It is recommended that you change the admin password from the default setting. The default passwords are blank (no password).

Password-	To change the passwords, enter the new password twice to confirm.
Remote Management-	Remote Management allows the device to be configured through the WAN (Wide Area Network) port from the Internet using a web browser. A username and password is still required to access the browser-based management inter- face.
IP Address-	Internet IP Address of the computer that has access to the DI-804HV. If the IP Address is set to 0.0.0.0, this allows all Internet IP addresses to access the DI-804HV.
Port-	The port number used to access the DI-804HV. E.g., http://x.x.x.x8080, where x.x.x.x is the WAN IP address of the DI-804HV and 8080 is the port used for the Web Management interface.

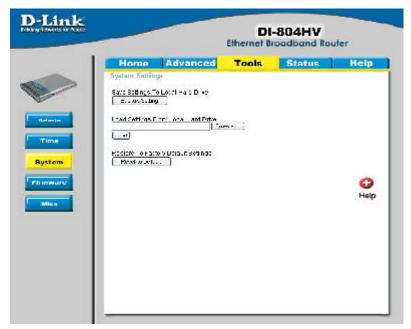
Tools> Time



Set the time here by entering it manually or use NTP (Network Time Protocol.) NTP is standard protocol on the Internet that synchronizes the time settings accurately for the DI-804HV.

Enable NTP-	Select to enable NTP and synchronize the time settings on your network using an NTP server
Default NTP server-	If you are enabling NTP, please enter the link to the default server.
Time Zone-	Select your time zone from the pull-down menu
Set Device Date and Time-	If you are entering the time manually, select the correct Year; Month; Day; Hour; Minute and Second

Tools > System



The current system settings can be saved as a file onto the local hard drive. The saved file or any other saved setting file created by the DI-804HV can be uploaded into the unit. To reload a system settings file, click on **Browse** to search the local hard drive for the file to be used. The device can also be reset back to factory default settings by clicking on the **Reset to Default** button. Use the restore feature only if necessary. This will erase previously saved settings for the unit. Make sure to save your system settings to the hard drive before doing a factory restore.

Save Settings to Local Hard Drive-	Click Backup Setting to save the current settings to the local Hard Drive
Load Settings from Local Hard Drive-	Click Browse to find the settings file, then click Load
Restore to Factory Default Settings-	Click Restore to Default to restore the factory default settings

Tools > Firmware



You can upgrade the firmware by using this tool. First, check the D-Link support site for firmware updates at <u>http://support.dlink.com</u>. Make sure that the firmware you want to use is saved on the local hard drive of your computer. Click on **Browse** to search the local hard drive for the firmware that you downloaded from the D-Link website to be used for the update. Upgrading the firmware will not change any of your system settings but it is recommended that you save your system settings before doing a firmware upgrade.

Browse-

After you have downloaded the new firmware, click **Browse** in this window to locate the firmware update on your hard drive. Click **Apply** to complete the firmware upgrade.



Note! Do not power off the unit when it is being upgraded. When the upgrade is complete, the unit will be restarted automatically.

Tools > Misc



Ping Test-In the open box, enter an URL (i.e. www.dlink.com) or an IP address and click on Ping to test your internet connection.

Restart Device- Click Reboot to restart the unit.

- **Block WAN Ping-**Click **Enable** to block the WAN ping. Computers on the Internet will not get a reply back from the DI-804HV when it is being "ping"ed. This may help to increase security.
- **SPI Mode-**When this feature is enabled, the router will record the packet information passed through the router such as IP address, port address, ACK, SEQ number, and so on. The router will also check every incoming packet to detect if it is valid.
- **DoS-** When DoS is enabled, the router will prevent Denial of Service attacks on all computers connected to the DI-804HV.

Tools > Misc Continued...



- **UPnP-** UPnP is short for Universal Plug and Play which is a networking architecture that provides compatibility among networking equipment, software, and peripherals. The DI-804HV is a UPnP enabled router and will only work with other UPnP devices/softwares. If you do not want to use the UPnP Functionality, it can be disabled by selecting "Disabled".
- VPN Pass-Through-Th

Non-standard FTP port- If an FTP server you want to access is not using the standard port 21, then enter in the port number that the FTP server is using instead.

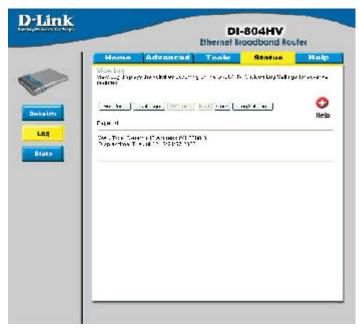
Status > Device Info

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This screen displays information about the DI-804HV

DHCP Renew-Click to renew IP addresses sent from the DHCP server.DHCP Release-Click to release IP addresses sent from the DHCP server.

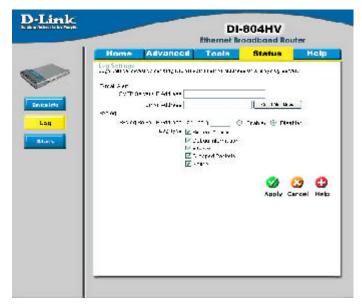
Using the Configuration Menu Status > Log



This screen displays activities occurring on the DI-804HV.

First Page-	Click First Page to go to the first page of the log.
Last Page-	Click Last Page to go to the last page of the log.
Previous-	Click Previous to go to the previous page of the log.
Next-	Click Next to go to the next page of the log.
Clear-	Click Clear to clear the entire log.
Log Settings-	Click for advanced features (see next page).

Using the Configuration Menu Status > Log Settings



- **E-Mail Alert-** The DI-804HV can be set up to send the log files to a specific email address.
- SMTP Server IP- Enter in the IP address of the mail server.
- Email Address-Enter in the email address of the recipient who will receive the email log.

Send Mail Now- Click to send mail immediately.

- IP Address of the Syslog Server-Syslog Server-Signal Enter in the IP address of a syslog server within the network. Click Enable to activate the policy. The DI-804HV will send all of it's logs to the specified syslog server.
- Log Type- Select the types of activity to log. By default, all values are selected.

Status > Stats



In Stats section, traffic statistics are displayed.

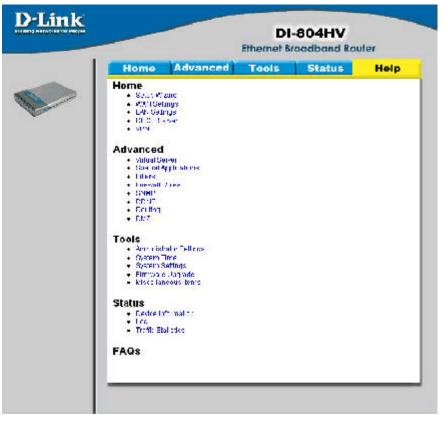
Refresh- This will update the page.

Reset- This will reset the packet counter to zero.

WAN- Displays Received / Transmitted packets from the WAN port.

LAN- Displays Received / Transmitted packets from the LAN port.

Help



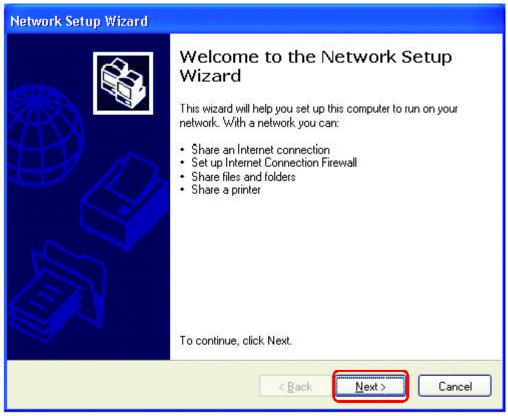
This screen displays the complete **Help** menu. For help at anytime, click the **Help** tab in the Configuration menu.

Using the Network Setup Wizard in Windows XP

In this section you will learn how to establish a network at home or work, using **Microsoft Windows XP.**

Note: Please refer to websites such as <u>http://www.homenethelp.com</u> and <u>http://www.microsoft.com/windows2000</u> for information about networking computers using Windows 2000, ME or 98.

Go to Start>Control Panel>Network Connections Select Set up a home or small office network



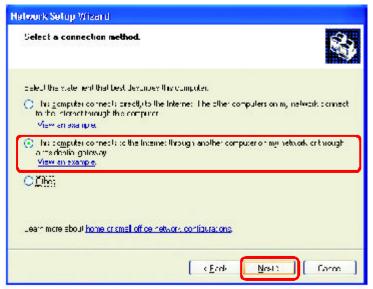
When this screen appears, Click Next.

Please follow all the instructions in this window:



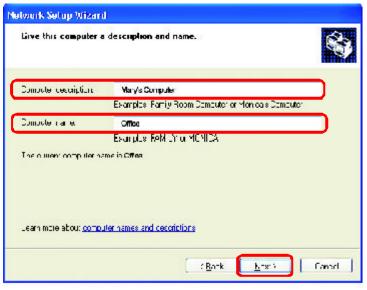
Click Next

In the following window, select the best description of your computer. If your computer connects to the internet through a gateway/router, select the second option as shown.



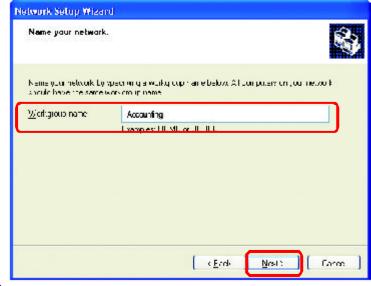
Click Next

Enter a Computer description and a Computer name (optional.)



Click Next

Enter a **Workgroup** name. All computers on your network should have the same **Workgroup** name.



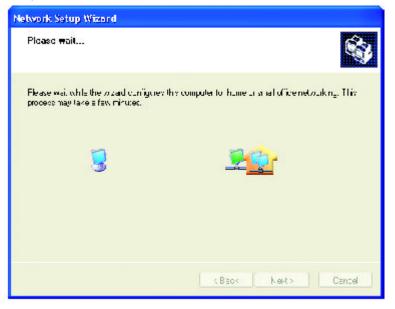
Click Next

Please wait while the Network Setup Wizard applies the changes.

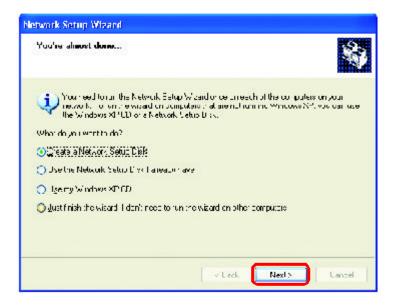
Network Setup Wizam	l .			
Ready to apply netw	ork settings			1
be wzent will epcil, the and cannot be merupte	lollowing settings. I ris ti d	miesz may iał	- o lez minilea h	o conclete
Gellangs:				
Nelcork settings.				~
	Marys Computer Cifice Accounting folloer and any printers or	ornecied to th	o computer have	been
shame 				
o apply litese sections.	tick Nest			
	[< Beuk	N=xI >	Cancel

When the changes are complete, click **Next**.

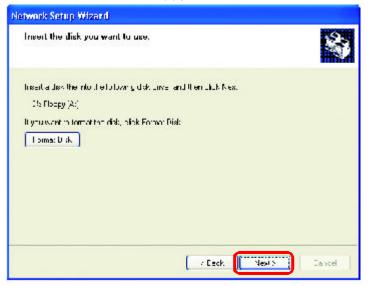
Please wait while the **Network Setup Wizard** configures the computer. This may take a few minutes.



In the window below, select the option that fits your needs. In this example, **Create a Network Setup Disk** has been selected. You will run this disk on each of the computers on your network. Click **Next**.



Insert a disk into the Floppy Disk Drive, in this case drive A.



Networking Basics

Copying	×
Please wait while the wizard copies files	
(Cancel

Please read the information under **Here's how** in the screen below. After you complete the **Network Setup Wizard** you will use the **Network Setup Disk** to run the **Network Setup Wizard** once on each of the computers on your network. To continue click **Next**.

Natwork Setup Wizard				
To run the wizard with the Network Selup Disk				
Complete the wizaid and restart this computer. Then, use the Nelwork Setup Disk to jur the Network Setup Wizarc once on each of the other computers or your network. Here's how: 1. Insert the Network Setup Disk into the next computer you want to network 2. Open My Computer and then open the Network Setup Disk. 3. Double-click "network"				
(Back Next) Cancol				

Networking Basics

Please read the information on this screen, then click **Finish** to complete the **Network Setup Wizard**.

Network Setup Wizard	
Network Setup Wizard	Completing the Network Setup Wizard You have successfully set up this computer for home or small office networking. For help with home or small office networking, see the following topics in Help and Support Denter: • Using the Shared Documents folder • Sharing files and folders To see other computers on your network, click Start, and ther click My Network Places.
	To close ths wizard, click Finish.
	K Eack Finish Cancel

The new settings will take effect when you restart the computer. Click **Yes** to restart the computer.

System 9	Settings Change 🛛 🕅
?	You must restart your computer before the new settings will take effect. Do you want to restart your computer now?

You have completed configuring this computer. Next, you will need to run the **Network Setup Disk** on all the other computers on your network. After running the **Network Setup Disk** on all your computers, your new wireless network will be ready to use.

Networking Basics Naming your Computer

To name your computer, please follow these directions: In Windows XP:

- Click Start (in the lower left corner of the screen)
- Right-click on My Computer
- Select Properties and click



- Select the Computer Name Tab in the System Properties window.
- You may enter a Computer Description if you wish; this field is optional.
- To rename the computer and join a domain, Click **Change**.

System Reclose	4 #throat	ic Jpda:cs	Remo:c
General	coputer Name	Harowale	Advanced
on the network of Conculor gescubtion	or example: "*	incher: Computer")	18
Falletinpaternene.	Computer"		
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workgroup:	Accounting		
To use the Network le	doniilioalion ₩zard Iocal usor account io		<u>N</u> etwork I (

Networking Basics Naming your Computer

In this window, enter the Computer name	Computer Name Changes [?]
Select Workgroup and enter the name of the Workgroup	You have change the plane and the membership of this our puter. Changey may affect all carry to riet work resources. Computer name:
All computers on your network	Office
Workgroup name.	l ul computermente Office
Click OK	Marchar of C Dometric
	💽 Workbroup Accounting
	OK Canto

Checking the IP Address in Windows XP

The wireless adapter-equipped computers in your network must be in the same IP Address range (see Getting Started in this manual for a definition of IP Address Range.) To check on the IP Address of the adapter, please do the following:

Right-click on the Local Area	Disable Status	
Connection icon in the task bar	Repair	
	View Available Wireless Networks	÷
	Open Network Connections	
Click on Status	3	3:05 PM

Networking Basics Checking the IP Address in <u>Windows XP</u>

This window will appear.	↑ Wireless Network Com	nection 7 Status 👘 🛛 🔀
Click the Support tab	General Support rternet Pictoco (TCP/IP)- Auduess Type. IP Address:	Assigned by DHCP
	S ubnet Mask: Deraut Galeway:	52 163.0 114 255 255 255 1 142 168 11 1 Details
Click Close	Неран	<u>[]</u>]⊃≎∈

Assigning a Static IP Address in Windows XP/2000

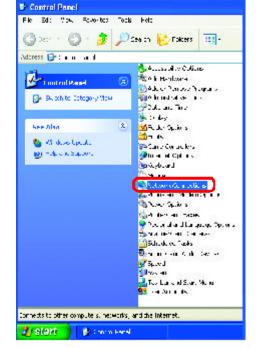
Note: Residential Gateways/Broadband Routers will automatically assign IP Addresses to the computers on the network, using DHCP (Dynamic Host Configuration Protocol) technology. If you are using a DHCP-capable Gateway/Router you will not need to assign Static IP Addresses.

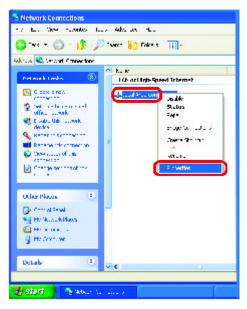
If you are not using a DHCP capable Gateway/Router, or you need to assign a Static IP Address, please follow these instructions:

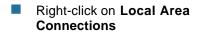


Networking Basics Assigning a Static IP Address in Windows XP/2000

Double-click on Network Connections







Click on Properties

Networking Basics Assigning a Static IP Address in <u>Windows XP/2000</u>

Click on Internet Protocol (TCP/IP)

Click Properties

In the window below, input your IP address, subnet mask, default gateway and DNS server address. (The IP Addresses on your network must be within the same range. For example, if one computer has an IP Address of 192.168.0.2, the other computers should have IP Addresses that are sequential, like 192.168.0.3 and 192.168.0.4. The subnet mask must be the same for all the computers on the network.)

?× 🕹 Local Area Connection 7 Properties General Advanced Connect using: **H**2 D-Link DWL-A650 Configure.. This connection uses the following items: 🗹 🖳 Client for Microsoft Networks 🗹 🚚 File and Printer Sharing for Microsoft Networks QoS Packet Scheduler ~ Internet Protocol (TCP/IP) Install... Uninstall Properties Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks. Show icon in notification area when connected 0K Cancel

IP Address: e.g., 192.168.0.2

Subnet Mask:

255.255.255.0

Enter the LAN IP address of the Wireless Router. (D-Link wireless routers have a LAN IP address of 192.168.0.1)

Select Use the following DNS server addresses.

Enter the LAN IP address of the Wireless Router. (D-Link wireless routers have a LAN IP address of 192.168.0.1)

meral	
	ed automatically if your network supports read to ask your network administrator fo
 Obtain on IP address auto Uge the following IP address 	
JP address:	192.168.0.2
Sybnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.0.1
 Option DNS server address Option DNS server address 	
Concerning reaction and	PRI HILINGALINA.
Breferred DNS server:	192 168 0 1

Click OK

The DNS server information will be supplied by your ISP (Internet Service Provider.)

Networking Basics Assigning a Static IP Address with <u>Macintosh OSX</u>

Go to the Apple Menu and select System Preferences



Click on Network

- Select Built-in Ethernet in the Show pull-down menu
- Select Manually in the Configure pull-down menu



	Location Automatic	
ow: Bult-in Ethen	net 🕴	
(< Manualiy	raktes
Configure	Using DHCP Using BootP	P Router
P Address Subnet Nask	Ontwided by DHCP Server1 255.255.255.0	
Router-	192.168.0.1	Search Domains (Dollara)
DHCP Client ID	(Cylinia)	
Ethernet Address		Example apple.com cuttilitioner

Input the Static IP Address, the Subnet Mask and the Router IP Address in the appropriate fields 0.0.0

	i sotter - A	Auroma k
-5	Buik-in Ethernet	
	TCP/IP Y PPR	of AppleTalk Finales
	Configure: [Naturally	*
r		Domain Name Servers: Opdatab
	P Address 192.168.0.2	
3	Subrot, Mask 233,235,235	C
	Router 192 158 D 1	Search Domeiro Comarao
he	met Address - 00:093375co	same gylson ar ddalau -

Click Apply Now

Networking Basics Selecting a Dynamic IP Address with <u>Macintosh OSX</u>

A A A

- Go to the Apple Menu and select System Preferences
- Click on **Network**



- Select Built-in Ethernet in the Show pull-down menu
- Select Using DHCP in the Configure pull-down menu

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	Manuals Manuals using DHCI	160015
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Router		Search Domains Coplicate
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llivernet Addresse		Chample: and is considered and act

- Click Apply Now
- The IP Address, Subnet mask, and the Router's IP Address will appear in a few seconds

88	Network
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Sature, Mark. 255.2 Reserve 10213	SE 255.0 Searr' fachans Robert

Networking Basics Adding and Sharing Printers in <u>Windows XP</u>

After you have run the **Network Setup Wizard** on all the computers in your network (please see the **Network Setup Wizard** section at the beginning of **Networking Basics**,) you can use the **Add Printer Wizard** to add or share a printer on your network.

Whether you want to add a **local printer** (a printer connected directly to one computer,) share an **LPR printer** (a printer connected to a print server) or share a **network printer** (a printer connected to your network through a Gateway/Router,) use the **Add Printer Wizard**. Please follow the directions below:

First, make sure that you have run the <u>Network Setup Wizard</u> on all of the computers on your network.

On the following pages, we will show you these 3 ways to use the Add Printer Wizard:

1. Adding a local printer

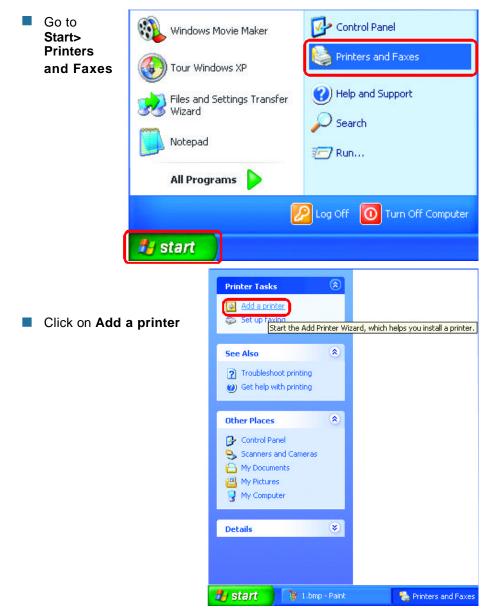
- 2. Sharing an network printer
- 3. Sharing an LPR printer

(Other Networking Tasks)

For help with other tasks, that we have not covered here, in home or small office networking, see **Using the Shared Documents** folder and **Sharing files and folders** in the **Help and Support Center** in Microsoft **Windows XP**.

Networking Basics Adding a local printer (a printer connected directly to a computer)

A printer that is not shared on the network and is connected directly to one computer is called a **local printer**. If you do not need to share your printer on a network, follow these directions to add the printer to one computer.

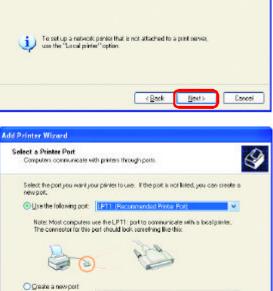






From the pull-down menu select the correct port for your printer

(Most computers use the **LPT1:** port, as shown in the illustration.)





< Back

New >

- Select and highlight the correct driver for your printer.
 - Click Next

(If the correct driver is not displayed, insert the CD or floppy disk that came with your printer and click **Have Disk**.)

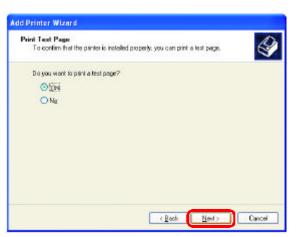
 At this screen, you can change the name of the printer (optional.)



Name Your Printer		- 1
You must assign a name to this printer.		6
Type a name for this printer. Because so name combinations of more than 31 char possible.	ne programs do not support printer a acters, it is best to keep the name a	end server s short as
Dinter name		
SECTOR N		



Select Yes, to print a test page. A successful printing will confirm that you have chosen the correct driver.

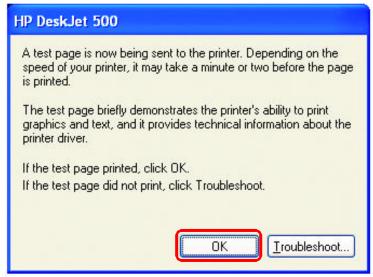


This screen gives you information about your printer.



Click Finish

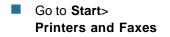
When the test page has printed,

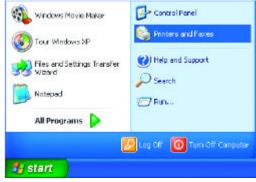


Printer Tasks (\$) 🚯 Add a printer Go to Start> Printers 🔚 See what's printing and Faxes Select printing preferences Pause printing 💩 Share this printer 💼 Rename this printer X Delete this printer 💥 Set printer properties A successful installation will display the printer icon as shown at right. * See Also 🔕 Go to manufacturer's Web site Other Places * You have successfully added a local 🐶 Control Panel printer. 🔍 Scanners and Cameras My Documents 😬 My Pictures My Computer 🛃 start

Sharing a network printer

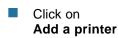
After you have run the **Network Setup Wizard** on all the computers on your network, you can run the **Add Printer Wizard** on all the computers on your network. Please follow these directions to use the **Add Printer Wizard** to share a printer on your network:





IP DeskJet 500

Networking Basics Sharing a network printer







Click Next

Select Network Printer

Click Next



Networking Basics Sharing a network printer

Select Browse for a printer

	Chrow the warne or address of the printer, you can search for a printer your needs.
What print	er da jou wert to cannect to?
Brogon	for a pinted
Ogonner	I to this printer (or to browse for a printer, select this option and slick Next)
Nane	
	Esample: Voserver/printer
O Egnnei	I to a printer on the Internet or on a home or office network:
URL	
	Example: http://sorves/printes/nyprintes/printer

Select the **printer** you would like to share

Click Next

Click Next

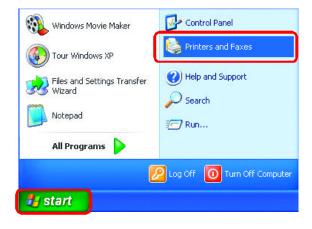
Add Print	er Wizard	
	for Printer in the list of printers appears.	select the one jou want to use.
Binles	VUQC39HP DeskJat 500	
Shared	peinters:	
	lo ocofi Windowo Network DLINK 1 1802 1 1803 5 HFO ad Jan	HP DeskJet 500
	internation ment	
Stab	z: Readj	Documents waiting 0
		(Back Next 2 Cancel





Networking Basics Sharing a network printer

- To check for proper installation:
- Go to Start > Printers and Faxes



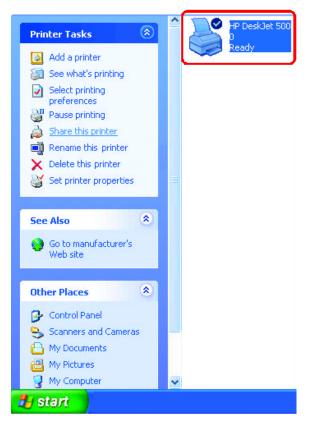
The printer icon will appear at right, indicating proper installation.

You have completed adding the printer.

To share this printer on your network:

- Remember the printer name
- Run the Add Printer Wizard on all the computers on your network
- Make sure you have already run the Network Setup Wizard on all the network computers

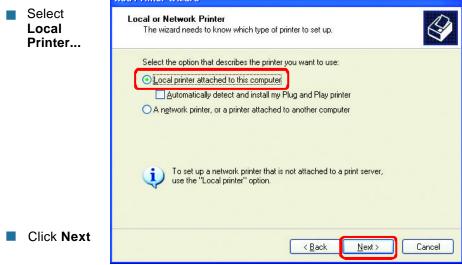
After you run the **Add Printer Wizard** on all the computers in the network, you can share the printer.



Networking Basics Sharing an LPR printer

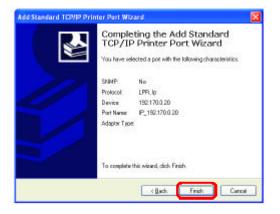
To share an **LPR printer** (using a print server,) you will need a Print Server such as the **DP-101P+**. Please make sure that you have run the **Network Setup Wizard** on all the computers on your network. To share an **LPR printer**, please follow these directions:





Networking Basics Sharing an LPR printer

This screen will show you information about your printer.



Click Finish

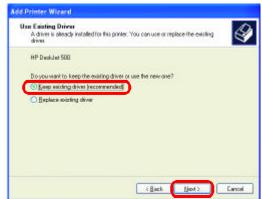
- Select the printer you are adding from the list of Printers.
- Insert the printer driver disk that came with your printer.
- Install Printer Software The manufacturer and model determine which printer software to use. Select five monutactuser and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for S compatible printer colliviale. Nonalactura Partes Fujtu HP Desklet 400 BDC: HP DeskJet 400 (Monochrome) Generic WHP Decklet 420 Bedetrer HP D HP This driver is digitally signed. Windows Update Have Disk Tell me why driver signing is important < Back Neitz Canoel

Add Printer Wizard

Click Have Disk

If the printer driver is already installed, do the following:

> Select Keep existing driver



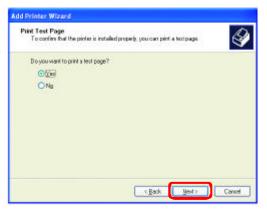


Networking Basics Sharing an LPR printer

- You can rename your printer if you choose. It is optional.
- Please remember the name of your printer. You will need this information when you use the Add Printer Wizard on the other computers on your network.

Add Printer Wizard	
None Your Printer You must excign a name to the pinter.	S
Type a name to this printer. Because some pr reame combinations of more files 31 character possible.	
Britenans	
HE DATA STOL	
	A
1	(Back Next) Cancel

- Click Next
- Select **Yes**, to print a test page.



Click Next

This screen will display information about your printer.

- Click Finish to complete the addition of the printer.
- Please run the Add Printer Wizard on all the computers on your network in order to share the printer.



Note: You must run the **Network Setup Wizard** on all the computers on your network before you run the **Add Printer Wizard**. 93

Resetting the DI-804HV to the Factory Default Settings

After you have tried other methods for troubleshooting your network, you may choose to **Reset** the DI-804HV to the factory default settings.



To hard-reset the D-Link DI-804HV to the Factory Default Settings, please do the following:

- Locate the Reset button on the back of the DI-804HV
- Use a paper clip to press the **Reset** button and power on.
- Hold for about 5 seconds (don't hold too long) and then release. (Or, release when M1 and M2 flash at the same time.)
- After you have completed the above steps, the DI-804HV will be reset to the factory default settings

Technical Specifications

Standards

- IEEE 802.3 10BASET-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet
- IEEE 802.3x Flow Control
- ANSI/IEEE 802.3 NWay auto-negotiation

VPN Pass Through Function

- PPTP
- L2TP
- IPSec

Device Management

- Web-Based Internet Explorer 6x or later; Netscape Navigator 6x or later; or other Java- enabled browsers.
- LEDs
- WAN
- LAN
- M1
- M2

COM

Operating Temperature

41°F to 131°F (5°C to 55°C)

Humidity

10-90%

Power

DC 5V

Dimensions

- L = 7.56 inches (192mm)
- W = 4.65 inches (48mm)
- H = 1.22 inches (31mm)

Weight

~10.8 oz. (0.3 kg)

Ports

- 4 x NWay 10BASE-T/100BASE-TX Fast Ethernet LAN (Media Auto Sensing
 - 1 x NWay 10BASE-T/100BASE-TX Fast Ethernet WAN (Media Auto Sensir
- 1 Com Port (Dial-Up Modem)

Frequently Asked Questions

Why can't I access the web based configuration?

When entering the IP Address of the DI-804HV (192.168.0.1), you are not connecting to the Internet or have to be connected to the Internet. The device has the utility builtin to a ROM chip in the device itself. Your computer must be on the same IP subnet to connect to the web-based utility.

To resolve difficulties accessing a web utility, please follow the steps below.

Step 1 Verify physical connectivity by checking for solid link lights on the device. If you do not get a solid link light, try using a different cable or connect to a different port on the device if possible. If the computer is turned off, the link light may not be on.

What type of cable should I be using?

The following connections require a Crossover Cable:

Computer to Computer Computer to Uplink Port Computer to Access Point Computer to Print Server Computer/XBOX/PS2 to DWL-810 Computer/XBOX/PS2 to DWL-900AP+ Uplink Port to Uplink Port (hub/switch) Normal Port to Normal Port (hub/switch)

The following connections require a Straight-through Cable:

Computer to Residential Gateway/Router Computer to Normal Port (hub/switch) Access Point to Normal Port (hub/switch) Print Server to Normal Port (hub/switch) Uplink Port to Normal Port (hub/switch)

Rule of Thumb: "If there is a link light, the cable is right."

What type of cable should I be using? (continued)

What's the difference between a crossover cable and a straight-through cable?

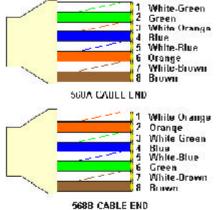
The wiring in crossover and straight-through cables are different. The two types of cable have different purposes for different

LAN configurations. EIA/TIA 568A/568B define the wiring standards and allow for two different wiring color codes as illustrated in the following diagram.

*The wires with colored backgrounds may have white stripes and may be denoted that way in diagrams found elsewhere.

How to tell straight-through cable from a crossover cable:

The main way to tell the difference between the two cable types is to compare the wiring order on the ends of the cable. If the wiring is the same on both sides, it is



straight-through cable. If one side has opposite wiring, it is a crossover cable.

All you need to remember to properly configure the cables is the pinout order of the two cable ends and the following rules:

A straight-through cable has identical ends A crossover cable has different ends

It makes no functional difference which standard you follow for straight-through cable ends, as long as both ends are the same. You can start a crossover cable with either standard as long as the other end is the other standard. It makes no functional difference which end is which. The order in which you pin the cable is important. Using a pattern other than what is specified in the above diagram could cause connection problems.

When to use a crossover cable and when to use a straight-through cable:

Computer to Computer – Crossover Computer to an normal port on a Hub/Switch – Straight-through Computer to an uplink port on a Hub/Switch - Crossover Hub/Switch uplink port to another Hub/Switch uplink port – Crossover Hub/Switch uplink port to another Hub/Switch normal port - Straight-through

Step 2 Disable any Internet security software running on the computer. Software firewalls like Zone Alarm, Black Ice, Sygate, Norton Personal Firewall, etc. might block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it.

Step 3 Configure your Internet settings.

Go to Start>Settings>Control Panel. Double click the Internet Options Icon. From the Security tab, click the button to restore the settings to their defaults.

Click to the **Connection** tab and set the dialup option to **Never Dial a Connection**. Click the **LAN Settings** button

Nothing should be checked. Click OK

Go to the **Advanced** tab and click the button to restore these settings to their defaults

Click **OK**. Go to the desktop and close any open windows



Step 4 Check your IP Address. Your computer must have an IP Address in the same range of the device you are attempting to configure. Most D-Link devices use the 192.168.0.X range.

How can I find my IP Address in Windows 95, 98, or ME?

Step 1 Click on Start, then click on Run.

Step 2 The Run Dialogue Box will appear. Type **winipcfg** in the window as shown then click **OK**.



Step 3 The **IP Configuration** window will appear, displaying your **Ethernet Adapter Information**.

- Select your adapter from the drop down menu.
- If you do not see your adapter in the drop down menu, your adapter is not properly installed.

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Step 4 After selecting your adapter, it will display your IP Address, subnet mask, and default gateway.

Step 5 Click OK to close the IP Configuration window

Step 4 (continued) Check your IP Address. Your computer must have an IP Address in the same range of the device you are attempting to configure. Most D-Link devices use the 192.168.0.X range.

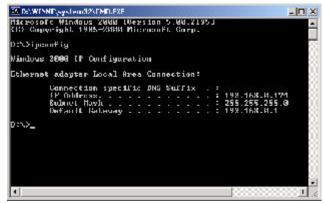
How can I find my IP Address in Windows 2000/XP?

Step 1 Click on Start and select Run.

Step 2 Type cmd then click OK.

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Step 3 From the Command Prompt, enter **ipconfig**. It will return your IP Address, subnet mask, and default gateway



Step 4 Type exit to close the command prompt.

Step 4 (continued) Check your IP Address. Your computer must have an IP Address in the same range of the device you are attempting to configure. Most D-Link devices use the 192.168.0.X range.

Make sure you take note of your computer's Default Gateway IP Address. The Default Gateway is the IP Address of the D-Link router. By default, it should be 192.168.0.1.

How can I assign a Static IP Address in Windows XP?

Step 1

Click on Start > Control Panel > Network and Internet Connections > Network connections.

Step 2 See Step 2 for Windows 2000 and continue from there.

How can I assign a Static IP Address in Windows 2000?

Step 1 Right-click on My Network Places and select Properties.

Step 2 Right-click on the Local Area Connection which represents your network card and select Properties.

Highlight Internet Protocol (TCP/ IP) and click Properties.

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How can I assign a Static IP Address in Windows 2000? (continued)

Click **Use the following IP Address** and enter an IP Address that is on the same subnet as the LAN IP Address on your router. <u>Example</u>: If the router's LAN IP Address is 192.168.0.1, make your IP Address 192.168.0.X where X = 2-99. Make sure that the number you choose is not in use on the network.

Set **the Default Gateway** to be the same as the LAN IP Address of your router (192.168.0.1).

Set **the Preferred DNS server** to be the same as the LAN IP address of your router (192.168.0.1).

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The Alternate DNS server is not needed or enter a DNS server from your ISP.

Click **OK** twice. You may be asked if you want to reboot your computer. Click **Yes**.

How can I assign a Static IP Address in Windows 98/Me?

Step 1 From the desktop, right-click on the **Network Neigborhood** icon (Win ME - My Network Places) and select **Properties**

Highlight **TCP/IP** and click the **Properties** button. If you have more than 1 adapter, then there will be a TCP/IP "Binding" for each adapter. Highlight **TCP/IP** > (your network adapter) and then click **Properties**.

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How can I assign a Static IP Address in Windows 98/Me? (continued)

Step 2 Click Specify an IP Address.

Enter in an IP Address that is on the same subnet as the LAN IP Address on your router. <u>Example</u>: If the router's LAN IP Address is 192.168.0.1, make your IP Address 192.168.0.X where X is between 2-99. Make sure that the number you choose is not in use on the network.

Step 3 Click on the Gateway tab.

Enter the LAN IP Address of your router here (192.168.0.1).

Click Add when finished.

Step 4 Click on the DNS Configuration tab.

Click **Enable DNS**. Type in a **Host** (can be any word). Under DNS server search order, enter the LAN IP Address of your router (192.168.0.1). Click **Add**.

Step 5 Click OK twice.

When prompted to reboot your computer, click **Yes** After you reboot, the computer will now have a static, private IP Address.

Step 5 Access the web management. Open your web browser and enter the IP Address of your D-Link device in the address bar. This should open the login page for the web

management. Follow instructions to login and complete the configuration.



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How can I setup my router to work with a Cable modem connection?

Dynamic Cable connection

(IE AT&T-BI, Cox, Adelphia, Rogers, Roadrunner, Charter, and Comcast).

Note: Please configure the router with the computer that was last connected directly to the cable modem.

Step 1 Log into the web based configuration by typing in the IP Address of the router (default:192.168.0.1) in your web browser. The username is admin (all lowercase) and

the password is **blank** (nothing).

Step 2 Click the **Home** tab and click the WAN button. Dynamic IP Address is the default value, however, if Dynamic IP Address is not selected as the WAN type, select Dynamic IP Address by clicking on the radio button, Click Clone Mac Address, Click on Apply and then Continue to save the

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How can I setup my router to work with a Cable modem connection? (continued)

Step 3 Power cycle the cable modem and router:

Turn the cable modem off (first) . Turn the router off Leave them off for 2 minutes.** Turn the cable modem on (first). Wait until you get a solid cable light on the cable modem. Turn the router on. Wait 30 seconds.

** If you have a Motorola (Surf Board) modem, leave off for at least 5 minutes.

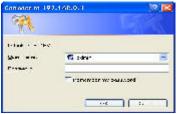
Step 4 Follow step 1 again and log back into the web configuration. Click the **Status** tab and click the **Device Info** button. If you do not already have a public IP Address under the **WAN** heading, click on the **DHCP Renew** and **Continue** buttons.

Static Cable Connection

Step 1 Log into the web based configuration by typing in the IP Address of the router (default:192.168.0.1) in your web browser. The username is **admin** (all lowercase) and

the password is **blank** (nothing).

Step 2 Click the **Home** tab and click the **WAN** button. Select **Static IP Address** and enter your static settings obtained from the ISP in the fields provided.



If you do not know your settings, you must contact your ISP.

Step 3 Click on **Apply** and then click **Continue** to save the changes.

Step 4 Click the **Status** tab and click the **Device Info** button. Your IP Address information will be displayed under the **WAN** heading.



How can I setup my router to work with Earthlink DSL or any PPPoE connection?

Make sure you disable or uninstall any PPPoE software such as WinPoet or Enternet 300 from your computer or you will not be able to connect to the Internet.

Step 1 Upgrade Firmware if needed.

(Please visit the D-Link tech support website at: http://support.dlink.com for the latest firmware upgrade information.)

Step 2 Take a paperclip and perform a hard reset. With the unit on, use a paperclip and hold down the reset button on the back of the unit for 10 seconds. Release it and the router will recycle, the lights will blink, and then stabilize.

Step 3 After the router stabilizes, open your browser and enter 192.168.0.1 into the address window and hit the **Enter** key. When the password dialog box appears, enter the username **admin** and leave the password blank. Click **OK**.

If the password dialog box does not come up repeat Step 2.

Note: Do not run Wizard.

Step 4 Click on the WAN tab on left-hand side of the screen. Select PPPoE.

Step 5 Select **Dynamic PPPoE** (unless your ISP supplied you with a static IP Address).

Step 6 In the username field enter **ELN/username@earthlink.net** and your password, where username is your own username.

For SBC Global users, enter username@sbcglobal.net. For Ameritech users, enter username@ameritech.net. For BellSouth users, enter username@bellsouth.net. For Mindspring users, enter username@mindspring.com. For most other ISPs, enter username.

Step 7 Maximum Idle Time should be set to zero. Set MTU to 1492, unless specified by your ISP, and set Autoreconnect to Enabled.

Note: If you experience problems accessing certain websites and/or email issues, please set the MTU to a lower number such as 1472, 1452, etc. Contact your ISP for more information and the proper MTU setting for your connection.

How can I setup my router to work with Earthlink DSL or any PPPoE connection? (continued)

Step 8 Click **Apply**. When prompted, click **Continue**. Once the screen refreshes, unplug the power to the D-Link router.

Step 9 Turn off your DSL modem for 2-3 minutes. Turn back on. Once the modem has established a link to your ISP, plug the power back into the D-Link router. Wait about 30 seconds and log back into the router.

Step 10 Click on the **Status** tab in the web configuration where you can view the device info. Under **WAN**, click **Connect**. Click **Continue** when prompted. You should now see that the device info will show an IP Address, verifying that the device has connected to a server and has been assigned an IP Address.

Can I use my D-Link Broadband Router to share my Internet connection provided by AOL DSL Plus?

In most cases yes. AOL DSL+ may use PPPoE for authentication bypassing the client software. If this is the case, then our routers will work with this service. Please contact AOL if you are not sure.

To set up your router:

Step 1 Log into the web-based configuration (192.168.0.1) and configure the WAN side to use PPPoE.

Step 2 Enter your screen name followed by @aol.com for the user name. Enter your AOL password in the password box.

Step 3 You will have to set the MTU to 1400. AOL DSL does not allow for anything higher than 1400.

Step 4 Apply settings.

Step 5 Recycle the power to the modem for 1 minute and then recycle power to the router. Allow 1 to 2 minutes to connect.

If you connect to the Internet with a different internet service provider and want to use the AOL software, you can do that without configuring the router's firewall settings. You need to configure the AOL software to connect using TCP/IP.

Go to http://www.aol.com for more specific configuration information of their software.

How can I establish a VPN connection with another DI-804HV router?

Step 1 Log into the web based configuration of the router by typing in the IP address of the router (default: 192.168.0.1) in your web browser. By default the username is "admin" and there is no password.

Step 2 Click the VPN button on the left column, select the checkbox to Enable the VPN, and then in the box next to Max. number of tunnels, enter the maximum numbers of VPN tunnels that you would like to have connected.

Step 3 In the space provided, enter the Tunnel Name for ID number 1, select IKE, and then click More.





How can I establish a VPN connection with another DI-804HV router? (continued)

Step 4 In the Local Subnet and Local Netmask fields enter the network identifier for the local DI-804HV's LAN and the corresponding subnet mask.



Step 5 In the Remote Subnet and Remote Netmask fields enter the network identifier for the remote DI-804HV's LAN and the corresponding subnet mask.

Step 6 In the Remote Gateway field enter the WAN IP address of the remote DI-804HV and in the Preshared Key field, enter a key which must be exactly the same as the Preshared Key that is configured on the remote DI-804HV.

Step 7 Click Apply and then click on Select IKE Proposal...





How can I establish a VPN connection with another DI-804HV router? (continued)

Step 8 Enter a name for proposal ID number 1 and select Group 1, 2, or 5 from the DH Group dropdown menu.

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Step 9 Select DES or 3DES as the Encryption Algorithm and either SHA-1 or MD5 as the Authentication Algorithm.

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Step 10 Enter a Lifetime value and then either select Sec. or KByte as the unit for the lifetime value.

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How can I establish a VPN connection with another DI-804HV router? (continued)

Step 11 Select 1 out of the Proposal ID dropdown menu and click Add To, which will add the proposal that was just configured to the IKE Proposal Index. Click Apply and then click Back.

Step 12 Click on Select IPSec Proposal...

Step 13 Enter a name for proposal ID number 1 and select Group 1, 2, 5, or None from the DH Group dropdown menu.

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Step 14 Select ESP or AH as the Encapsulation Protocol.

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How can I establish a VPN connection with another DI-804HV router? (continued)

Step 15 Select DES or 3DES as the Encryption Algorithm and either SHA-1, MD5, or None as the Authentication Algorithm.

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Step 16 Enter a Lifetime value and then either select Sec. or KB as the unit for the lifetime value.

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Step 17 Select 1 out of the Proposal ID dropdown menu and click Add To, which will add the proposal that was just configured to the IPSec Proposal Index. Click Apply and then click Restart.

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How can I establish a VPN connection with another DI-804HV router? (continued)

Step 18 Follow these instructions to configure your Other DI-804HV using the exact same settings for the IKE Proposal and the IPSec Proposal. Also make sure that Step 4 is configured to reflect the LAN settings for what is now the Local DI-804HV and that Steps 5 & 6 are configured to reflect the Subnet and WAN IP of what is now the Remote DI-804HV

Step 19 To establish the connection, open a command prompt and ping an IP address of a computer on the remote LAN. Once you receive replies the tunnel has been established.

How can I establish a VPN connection with a DI-804V router?

You need to first configure your DI-804HV router.

Step 1 Log into the web based configuration of the router by typing in the IP address of the router (default: 192.168.0.1) in your web browser. By default the username is "admin" and there is no password.

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Step 2 Click the VPN button on the left column, select the checkbox to Enable the VPN, and then in the box next to Max. number of tunnels, enter the maximum numbers of VPN tunnels that you would like to have connected.

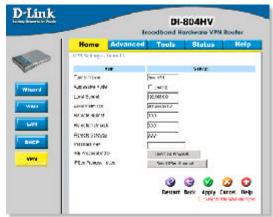
How can I establish a VPN connection with a DI-804V router? (continued)

Step 3 In the space provided, enter the Tunnel Name for ID number 1, select IKE, and then click More.



Step 4 In the Local Subnet and Local Netmask fields enter the network identifier for DI-804HV's LAN and the corresponding subnet mask.

Step 5 In the Remote Subnet and Remote Netmask fields enter the network identifier for the DI-804V's LAN and the corresponding subnet mask.





How can I establish a VPN connection with a DI-804V router? (continued)

Step 6 In the Remote Gateway field enter the WAN IP address of the remote DI-804V and in the Preshared Key field, enter a key which must be exactly the same as the Preshared Key that is configured on the DI-804V.



Step 7 Click Apply and then click on Select IKE Proposal...

Step 8 Enter a name for proposal ID number 1 and select Group 2 from the DH Group drop down menu.

Step 9 Select 3DES as the Encryption Algorithm and SHA-1 as the Authentication Algorithm.

Step 10 Enter a Lifetime value of 28800 and then select Sec. as the unit for the lifetime value.

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How can I establish a VPN connection with a DI-804V router? (continued)

Step 11 Select 1 out of the Proposal ID dropdown menu and click Add To, which will add the proposal that was just configured to the IKE Proposal Index. Click Apply and then click Back.

Step 12 Click on Select IPSec Proposal...

Step 13 Enter a name for proposal ID number 1 and select None from the DH Group dropdown menu.

Step 14 Select ESP as the Encapsulation Protocol.

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Step 15 Select 3DES as the Encryption Algorithm and MD5 as the Authentication Algorithm.

Step 16 Enter a Lifetime value of 3600 and then select Sec. as the unit for the lifetime value.

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How can I establish a VPN connection with a DI-804V router? (continued)

Step 17 Select 1 out of the Proposal ID dropdown menu and click Add To, which will add the proposal that was just configured to the IPSec Proposal Index. Click Apply and then click Restart.

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Next you need to configure the DI-804V router.

Step 1 Access the router's web configuration by entering the router's IP address in your web browser. The default IP address is 192.168.0.1. Login using your password. The default username is "admin" and the password is blank.

Step 2 Click on Basic Setup and then select Device IP Settings on the left.

Step 3 Change the LAN IP address so that it is on a different subnet than the LAN of the DI-804HV.

Step 4 Click Next until you reach the Save & Restart screen. Click Save & Restart and then click Basic Setup once the unit has rebooted.

Step 5 Click on VPN Settings.

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How can I establish a VPN connection with a DI-804V router? (continued)

Step 6 Name your VPN connection and click ADD.

Step 7 In Remote IP Network and Remote IP Netmask fields enter the network identifier and corresponding subnet mask of the DI-804HV's LAN.

Step 8 In the Remote Gateway IP field enter the WAN IP address of the DI-804HV and make sure that the Network Interface is set to WAN Ethernet.

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Step 9 Verify that Secure Association is set to IKE and that Perfect Forward Secure is Disabled.

Step 10 Verify the Encryption Protocol is set to 3DES and enter in your Preshared Key.

Note: The Preshared Key needs to be identical to the one configured on the DI-804HV.

Step 11 Leave the Key Life and IKE Life Time values at their default levels and click SAVE.

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Step 12 Click Next and then click on Save & Restart



DI-804V

VPN Router

How can I establish a VPN connection with a DI-804V router? (continued)

After you have configured both routers, you need to establish a connection.

Step 1 Open a command prompt and from a computer on the internal LAN of the DI-804HV and ping the IP address of a computer that is on the internal LAN of the DI-804V, or vice versa.

Step 2 Once you begin to receive replies, the VPN connection has been established.

Step 3 To view the Status of the VPN on the DI-804V, click on Device Status.

Step 4 From the Device Status screen click on VPN Status.

Step 5 When the VPN has been established the Status will be Active.





How can I c with a DFL-300 firewall?

You need to first configure your DI-804HV router.

Step 1 Log into the web based configuration of the router by typing in the IP address of the router (default: 192.168.0.1) in your web browser. By default the username is "admin" and there is no password.

Step 2 Click the VPN button on the left column, select the checkbox to Enable the VPN, and then in the box next to Max. number of tunnels, enter the maximum numbers of VPN tunnels that you would like to have connected.

How can I establish a VPN connection with a DFL-300 firewall? (continued)

Step 3 In the space provided, enter the Tunnel Name for ID number 1, select IKE, and then click More.



Step 4 In the Local Subnet and Local Netmask fields enter the network identifier for DI-804HV's LAN and the corresponding subnet mask.



Step 5 In the Remote Subnet and Remote Netmask fields enter the network identifier for the DFL-300's Internal interface and the corresponding subnet mask.



How can I establish a VPN connection with a DFL-300 firewall? (continued)

Step 6 In the Remote Gateway field enter the WAN IP address of the remote DFL-300 and in the Preshared Key field, enter a key which must be exactly the same as the Preshared Key that is configured on the DFL-300.

Step 7 Click Apply and then click on Select IKE Proposal...



Step 8 Enter a name for proposal ID number 1 and select Group 2 from the DH Group dropdown menu.

Step 9 Select 3DES as the Encryption Algorithm and SHA-1 as the Authentication Algorithm.

Step 10 Enter a Lifetime value of 28800 and then select Sec. as the unit for the lifetime value.

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How can I establish a VPN connection with a DFL-300 firewall? (continued)

Step 11 Select 1 out of the Proposal ID dropdown menu and click Add To, which will add the proposal that was just configured to the IKE Proposal Index. Click Apply and then click Back.

Step 12 Click on Select IPSec Proposal...

Step 13 Enter a name for proposal ID number 1 and select None from the DH Group dropdown menu.

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Step 14 Select ESP as the Encapsulation Protocol.

Step 15 Select 3DES as the Encryption Algorithm and MD5 as the Authentication Algorithm.

Step 16 Enter a Lifetime value of 28800 and then select Sec. as the unit for the lifetime value.

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How can I establish a VPN connection with a DFL-300 firewall? (continued)

Step 17 Select 1 out of the Proposal ID dropdown menu and click Add To, which will add the proposal that was just configured to the IPSec Proposal Index. Click Apply and then click Restart.

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Next you need to configure the DFL-300 firewall.

Step 1 Access the configuration screen of the DFL-300 by opening a web browser such as Internet Explorer and type the IP address of the DFL-300 in the address bar (192.168.1.1).

Step 2 Enter the username (admin) and the password (admin). Click OK.

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Step 3 Click on Configuration and	D-Link		ç	Office Firewall
take note of the IP address that your ISP has assigned you.	Agen z ha ta kan Not Narro Haccer 10 Statum Tatle Natur Natur Oris Pring: Oyse with OHS Status Martin Schaddlin Peloty With Screen Leg Marine Status ta Status ta	International Interface C. Transportent Mode P. Additived P. Additived Statemet Interface C. PPPAE (ADEL User) C. PPPAE (ADEL User) C. Date Interface P. Additions Network Detauth Satemay Domain Name Converti Domain Mode P. National C. Two approximat Mode P. Additional P. Additional P. Additional Database Network	Iter 100 11 (265 205 2010) als Modern Utaar) (1010 1030 (265 003) (1010 1030) (1010 1000) (1010 100) (1010 1000) (1010 100) (1	E WIRU

How can I establish a VPN connection with a DFL-300 firewall? (continued)

Step 4 Click on Policy and verify that you have an Outgoing policy configured. If not, click on New Entry, accept the default values, and click OK.



Step 5 Click on VPN and then click New Entry.

Step 6 Give the VPN connection a name with no spaces.

Step 7 Enter the network identifier and subnet mask of the Internal interface.

Step 8 In the To Destination section, select either Remote Gateway—Fixed IP or Remote Gateway—Dynamic IP. Enter the WAN IP address of the DI-804HV if Remote Gateway—Fixed IP is selected.

Step 9 Enter the network identifier corresponding subnet mask of the DI-804HV's LAN.

Step 10 Enter a Preshared Key. The Preshared Key needs to be identical to the one configured on the DI-804HV

Step 11 Select Data Encryption and Authentication as the Encapsulation and click OK.

How can I establish a VPN connection with a DFL-300 firewall?
(continued)

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After you have configured both the router and firewall, you need to establish a connection.

Step 1 Open a command prompt and from a computer connected to the Internal interface of the DFL-300 and ping the IP address of a computer that is on the internal LAN of the DI-804HV, or vice versa.

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Step 2 Once you begin to receive replies, the VPN connection has been established.

How do I open ports on my router?

To allow traffic from the internet to enter your local network, you will need to open up ports or the router will block the request.

Step 1 Open your web browser and enter the IP Address of your D-Link router (192.168.0.1). Enter username (admin) and your password (blank by default).

Step 2 Click on **Advanced** on top and then click **Virtual Server** on the left side.

Step 3 Check **Enabled** to activate entry.

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Step 4 Enter a name for your virtual server entry.

Step 5 Next to **Private IP**, enter the IP Address of the computer on your local network that you want to allow the incoming service to.

Step 6 Choose **Protocol Type** - either TCP, UDP, or both. If you are not sure, select both.

Step 7 Enter the port information next to **Private Port** and **Public Port**. The private and public ports are usually the same. The public port is the port seen from the WAN side, and the private port is the port being used by the application on the computer within your local network.

Step 8 Enter the **Schedule** information.

Step 9 Click **Apply** and then click **Continue**.

Note: Make sure DMZ host is disabled. If DMZ is enabled, it will disable all Virtual Server entries.

Because our routers use NAT (Network Address Translation), you can only open a specific port to one computer at a time. For example: If you have 2 web servers on your network, you cannot open port 80 to both computers. You will need to configure 1 of the web servers to use port 81. Now you can open port 80 to the first computer and then open port 81 to the other computer.

What is DMZ?

Demilitarized Zone:

In computer networks, a DMZ (demilitarized zone) is a computer host or small network inserted as a neutral zone between a company's private network and the outside public network. It prevents outside users from getting direct access to a server that has company data. (The term comes from the geographic buffer zone that was set up between North Korea and South Korea following the UN police action in the early 1950s.) A DMZ is an optional and more secure approach to a firewall and effectively acts as a proxy server as well.

In a typical DMZ configuration for a small company, a separate computer (or host in network terms) receives requests from users within the private network for access to Web sites or other companies accessible on the public network. The DMZ host then initiates sessions for these requests on the public network. However, the DMZ host is not able to initiate a session back into the private network. It can only forward packets that have already been requested.

Users of the public network outside the company can access only the DMZ host. The DMZ may typically also have the company's Web pages so these could be served to the outside world. However, the DMZ provides access to no other company data. In the event that an outside user penetrated the DMZ hosts security, the Web pages might be corrupted but no other company information would be exposed. D-Link, a leading maker of routers, is one company that sells products designed for setting up a DMZ

How do I configure the DMZ Host?

The DMZ feature allows you to forward all incoming ports to one computer on the local network. The DMZ, or Demilitarized Zone, will allow the specified computer to be exposed to the Internet. DMZ is useful when a certain application or game does not work through the firewall. The computer that is configured for DMZ will be completely vulnerable on the Internet, so it is suggested that you try opening ports from the Virtual Server or Firewall settings before using DMZ.

Step 1 Find the IP address of the computer you want to use as the DMZ host.

To find out how to locate the IP Address of the computer in Windows XP/2000/ME/9x or Macintosh operating systems please refer to Step 4 of the first question in this section (Frequently Asked Questions).

How do I configure the DMZ Host? (continued)

Step 2 Log into the web based configuration of the router by typing in the IP Address of the router (default:192.168.0.1) in your web browser. The username is **admin** (all lowercase) and the password is **blank** (nothing)

DI-804HV	? 🛛
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Access Point	
<u>U</u> ser name:	👩 admin 💌
Password:	
	<u>R</u> emember my password
	OK Cancel

Step 3 Click the **Advanced** tab and then click on the **DMZ** button. Select **Enable** and type in the IP Address you found in step 1.

Step 4 Click **Apply** and then **Continue** to save the changes.

Note: When DMZ is enabled, Virtual Server settings will still be effective. Remember, you cannot forward the same port to multiple IP Addresses, so the Virtual Server settings will take priority over DMZ settings.



How do I open a range of ports on my DI-804HV using Firewall rules?

Step 1 Access the router's web configuration by entering the router's IP Address in your web browser. The default IP Address is **192.168.0.1**. Login using your password. The default username is "admin" and the password is blank.

If you are having difficulty accessing web management, please see the first question in this section.

Step 2 From the web management Home page, click the **Advanced** tab then click the Firewall button.

Step 3 Click on Enabled and type in a name for the new rule.

Step 4 Choose WAN as the **Source** and enter a range of IP Addresses out on the internet that you would like this rule applied to. If you would like this rule to allow all internet users to be able to access these ports, then put an Asterisk in the first box and leave the second box empty.

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Step 5 Select LAN as the Destination and enter the IP Address of the computer on your local network that you want to allow the incoming service to. This will not work with a range of IP Addresses.

Step 6 Enter the port or range of ports that are required to be open for the incoming service.

Step 7 Click Apply and then click Continue.

Note: Make sure DMZ host is disabled.

Because our routers use NAT (Network Address Translation), you can only open a specific port to one computer at a time. For example: If you have 2 web servers on your network, you cannot open port 80 to both computers. You will need to configure 1 of the web servers to use port 81. Now you can open port 80 to the first computer and then open port 81 to the other computer.

What are virtual servers?

A Virtual Server is defined as a service port, and all requests to this port will be redirected to the computer specified by the server IP. For example, if you have an FTP Server (port 21) at 192.168.0.5, a Web server (port 80) at 192.168.0.6, and a VPN server at 192.168.0.7, then you need to specify the following virtual server mapping table:

Server Port	Server IP	Enable
21	192.168.0.5	Х
80	192.168.0.6	Х
1723	192.168.0.7	Х

How do I use PC Anywhere with my DI-804HV router?

You will need to open 3 ports in the Virtual Server section of your D-Link router.

Step 1 Open your web browser and enter the IP Address of the router (192.168.0.1).

Step 2 Click on Advanced at the top and then click Virtual Server on the left side.

Step 3 Enter the information as seen below. The **Private IP** is the IP Address of the computer on your local network that you want to connect to.

Step 4 The first entry will read as shown here:

Step 5 Click **Apply** and then click **Continue**.

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How do I use PC Anywhere with my DI-804HV router? (continued)

Step 6 Create a second entry as shown here:

Step 7 Click **Apply** and then click **Continue**.

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Step 8 Create a third and final entry as shown here:

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Step 9 Click **Apply** and then click **Continue**.

Step 10 Run *PCAnywhere* from the remote site and use the WAN IP Address of the router, not your computer's IP Address. 131

How can I use eDonkey behind my D-Link Router?

You must open ports on your router to allow incoming traffic while using eDonkey.

eDonkey uses three ports (4 if using CLI):

4661 (TCP) To connect with a server

4662 (TCP) To connect with other clients

4665 (UDP) To communicate with servers other than the one you are connected to. 4663 (TCP) *Used with the command line (CLI) client when it is configured to allow remote connections. This is the case when using a Graphical Interface (such as the Java Interface) with the client.

Step 1 Open your web browser and enter the IP Address of your router (192.168.0.1). Enter username (admin) and your password (leave blank).

Step 2 Click on **Advanced** and then click **Firewall**.

Step 3 Create a new firewall rule: Click Enabled. Enter a name (edonkey). Click Allow. Next to Source, select WAN under interface. In the first box, enter an *. Leave the second box empty. Next to Destination. select LAN under interface. Enter the IP Address of the computer you are running eDonkey from. Leave the second box empty. Under Protocol, select *. In the port range boxes, enter

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4661 in the first box and then **4665** in the second box. Click **Always** or set a schedule.

Step 4 Click Apply and then Continue.

How do I set up my router for SOCOM on my Playstation 2?

To allow you to play SOCOM and hear audio, you must download the latest firmware for the router (if needed), enable Game Mode, and open port 6869 to the IP Address of your Playstation.

Step 1 Upgrade firmware (follow link above).

Step 2 Open your web browser and enter the IP Address of the router (192.168.0.1). Enter username (admin) and your password (blank by default).

Step 3 Click on the Advanced tab and then click on Virtual Server on the left side.

Step 4 You will now create a new Virtual Server entry. Click **Enabled** and enter a name (socom). Enter the IP Address of your Playstation for **Private IP**.

Step 5 For **Protocol Type** select Both. Enter **6869** for both the **Private Port** and **Public Port**. Click **Always**. Click **Apply** to save changes and then **Continue**

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Step 6 Click on the **Tools** tab and then **Misc** on the left side.

Step 7 Make sure **Gaming Mode** is Enabled. If not, click **Enabled**. Click **Apply** and then **Continue**.

How can I use Gamespy behind my D-Link router?

Step 1 Open your web browser and enter the IP Address of the router (192.168.0.1). Enter admin for the username and your password (blank by default).

Step 2 Click on the Advanced tab and then click Virtual Server on the left side.

Step 3 You will create 2 entries.

Step 4 Click Enabled and enter Settings:

NAME - Gamespy1

PRIVATE IP - The IP Address of your computer that you are running Gamespy from.

PROTOCOL TYPE - Both

PRIVATE PORT - 3783

PUBLIC PORT - 3783

SCHEDULE - Always.

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Click Apply and then continue

Step 5 Enter 2nd entry: Click Enabled

NAME - Gamespy2

PRIVATE IP - The IP Address of your computer that you are running Gamespy from.

PROTOCOL TYPE - Both

PRIVATE PORT - 6500

PUBLIC PORT - 6500

SCHEDULE - Always.

Click Apply and then continue.

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How do I configure my router for KaZaA and Grokster?

The following is for KaZaA, Grokster, and others using the FastTrack P2P file sharing system.

In most cases, you do not have to configure anything on the router or on the Kazaa software. If you are having problems, please follow steps below:

Step 1 Enter the IP Address of your router in a web browser (192.168.0.1).

Step 2 Enter your username (admin) and your password (blank by default).

- Step 3 Click on Advanced and then click Virtual Server.
- Step 4 Click Enabled and then enter a Name (kazaa for example).

Step 5 Enter the IP Address of the computer you are running KaZaA from in the Private IP box. Select TCP for the Protocol Type.

Step 6 Enter 1214 in the Private and Public Port boxes. Click Always under schedule or set a time range. Click Apply.

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Make sure that you did not enable proxy/firewall in the KaZaA software.

How do I configure my router to play Warcraft 3?

You must open ports on your router to allow incoming traffic while <u>hosting</u> a game in Warcraft 3. To play a game, you do not have to configure your router.

Warcraft 3 (Battlenet) uses port 6112.

For the DI804HV:

Step 1 Open your web browser and enter the IP Address of your router (192.168.0.1). Enter username (admin) and your password (leave blank).

Step 2 Click on **Advanced** and then click **Virtual Server**.

Step 3 Create a new entry: Click Enabled. Enter a name (warcraft3). Private IP - Enter the IP Address of the computer you want to host the game. Select **Both** for Protocol Type Enter

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6112 for both Private Port and Public Port Click **Always** or set a schedule.

Step 4 Click Apply and then Continue.

Note: If you want multiple computers from you LAN to play in the same game that you are hosting, then repeat the steps above and enter the IP Addresses of the other computers. You will need to change ports. Computer #2 can use port 6113, computer #3 can use 6114, and so on.

You will need to change the port information within the Warcraft 3 software for computers #2 and up.

Configure the Game Port information on each computer:

Start Warcraft 3 on each computer, click **Options** > **Gameplay**. Scroll down and you should see **Game Port**. Enter the port number as you entered in the above steps.

How do I use NetMeeting with my D-Link Router?

Unlike most TCP/IP applications, NetMeeting uses **DYNAMIC PORTS** instead of STATIC PORTS. That means that each NetMeeting connection is somewhat different than the last. For instance, the HTTP web site application uses port 80. NetMeeting can use any of over 60,000 different ports.

All broadband routers using (only) standard NAT and all internet sharing programs like Microsoft ICS that use (only) standard NAT will NOT work with NetMeeting or other h.323 software packages.

The solution is to put the router in DMZ.

Note: A few hardware manufacturers have taken it on themselves to actually provide H.323 compatibility. This is not an easy task since the router must search each incoming packet for signs that it might be a netmeeting packet. This is a whole lot more work than a router normally does and may actually be a **weak point in the firewall**. D-Link is not one of the manufacturers.

To read more on this visit <u>http://www.HomenetHelp.com</u>

How do I set up my router to use iChat? -for Macintosh users-

You must open ports on your router to allow incoming traffic while using iChat.

iChat uses the following ports: 5060 (UDP) 5190 (TCP) File Sharing 16384-16403 (UDP) To video conference with other clients

Step 1 Open your web browser and enter the IP Address of your router (192.168.0.1). Enter username (admin) and your password (leave blank).

Step 2 Click on Advanced and then click Firewall.

How do I set up my router to use iChat? -for Macintosh users-(continued)

Step 3 Create a new firewall rule:

Click **Enabled**. Enter a name (ichat1). Click **Allow**. Next to Source, select **WAN** under interface. In the first box, enter an *. Leave the second box empty. Next to Destination, select **LAN** under interface. Enter the IP Address of the computer you are running iChat from.

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Leave the second box empty. Under Protocol, select **UDP**. In the port range boxes, enter **5060** in the first box and leave the second box empty. Click **Always** or set a schedule.

Step 4 Click **Apply** and then **Continue**.

Step 5 Repeat steps 3 and 4 enter ichat2 and open ports 16384-16403 (UDP).



How do I set up my router to use iChat? -for Macintosh users-

For File Sharing: Step 1 Click on **Advanced** and then **Virtual Server**.

Step 2 Check **Enabled** to activate entry.

Step 3 Enter a name for your virtual server entry (ichat3).

Step 4 Next to Private IP, enter the IP Address of the computer on your local network that you want to allow the incoming service to.

Step 5 Select **TCP** for Protocol Type.

Step 6 Enter **5190** next to Private Port and Public Port.

Stsp 7 Click Always or configure a schedule.

Step 8 Click **Apply** and then **Continue**.

If using Mac OS X Firewall, you may need to temporarily turn off the firewall in the Sharing preference pane on both computers.

To use the Mac OS X Firewall, you must open the same ports as in the router:

- Step 1 Choose Apple menu > System Preferences.
- Step 2 Choose View > Sharing.
- Step 3 Click the Firewall tab.
- Step 4 Click New.
- Step 5 Choose **Other** from the Port Name pop-up menu.

Step 6 In the Port Number, Range or Series field, type in: **5060**, **16384-16403**.

- Step 7 In the Description field type in: iChat AV
- Step 8 Click OK.

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How do I send or receive a file via iChat when the Mac OSX firewall is active? -for Macintosh users- Mac OS X 10.2 and later

The following information is from the online Macintosh AppleCare knowledge base:

"iChat cannot send or receive a file when the Mac OS X firewall is active in its default state. If you have opened the AIM port, you may be able to receive a file but not send them.

In its default state, the Mac OS X firewall blocks file transfers using iChat or America Online AIM software. If either the sender or receiver has turned on the Mac OS X firewall, the transfer may be blocked.

The simplest workaround is to temporarily turn off the firewall in the Sharing preference pane on both computers. This is required for the sender. However, the receiver may keep the firewall on if the AIM port is open. To open the AIM port:

Step 1 Choose Apple menu > System Preferences.

Step 2 Choose View > Sharing.

Step 3 Click the Firewall tab.

Step 4 Click New.

Step 5 Choose AOL IM from the Port Name pop-up menu. The number 5190 should already be filled in for you.

Step 6 Click OK.

If you do not want to turn off the firewall at the sending computer, a different file sharing service may be used instead of iChat. The types of file sharing available in Mac OS X are outlined in technical document 106461, "Mac OS X: File Sharing" in the *AppleCare Knowledge base* online.

Note: If you use a file sharing service when the firewall is turned on, be sure to click the Firewall tab and select the service you have chosen in the "Allow" list. If you do not do this, the firewall will also block the file sharing service. "

What is NAT?

NAT stands for **Network Address Translator**. It is proposed and described in RFC-1631 and is used for solving the IP Address depletion problem. Basically, each NAT box has a table consisting of pairs of local IP Addresses and globally unique addresses, by which the box can "translate" the local IP Addresses to global address and vice versa. Simply put, it is a method of connecting multiple computers to the Internet (or any other IP network) using one IP Address.

D-Link's broadband routers (ie: DI-804HV) support NAT. With proper configuration, multiple users can access the Internet using a single account via the NAT device.

For more information on RFC-1631: The IP Network Address Translator (NAT), visit <u>http://www.faqs.org/rfcs/rfc1631.html</u>

Contacting Technical Support

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

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

U.S. customers can contact D-Link technical support through our web site, or by phone.

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

When contacting technical support, you will need the information below. (Please look on the back side of the unit.)

- Serial number of the unit
- Model number or product name
- Software type and version number

Warranty

Subject to the terms and conditions set forth herein, D-Link Systems, Inc. ("D-Link") provides this Limited warranty for its product only to the person or entity that originally purchased the product from:

- D-Link or its authorized reseller or distributor and
- Products purchased and delivered within the fifty states of the United States, the District of Columbia, U.S. Possessions or Protectorates, U.S. Military Installations, addresses with an APO or FPO.

Limited Warranty: D-Link warrants that the hardware portion of the D-Link products described below will be free from material defects in workmanship and materials from the date of original retail purchase of the product, for the period set forth below applicable to the product type ("Warranty Period"), except as otherwise stated herein.

1-Year Limited Warranty for the Product(s) is defined as follows:

- Hardware (excluding power supplies and fans) One (1) Year
- Power Supplies and Fans One (1) Year
- Spare parts and spare kits Ninety (90) days

D-Link's sole obligation shall be to repair or replace the defective Hardware during the Warranty Period at no charge to the original owner or to refund at D-Link's sole discretion. Such repair or replacement will be rendered by D-Link at an Authorized D-Link Service Office. The replacement Hardware need not be new or have an identical make, model or part. D-Link may in its sole discretion replace the defective Hardware (or any part thereof) with any reconditioned product that D-Link reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. Repaired or replacement Hardware will be warranted for the remainder of the original Warranty Period from the date of original retail purchase. If a material defect is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to repair or replace the defective Hardware, the price paid by the original purchaser for the defective Hardware will be refunded by D-Link, or for which the purchase price is refunded, shall become the property of D-Link upon replacement or refund.

Limited Software Warranty: D-Link warrants that the software portion of the product ("Software") will substantially conform to D-Link's then current functional specifications for the Software, as set forth in the applicable documentation, from the date of original retail purchase of the Software for a period of ninety (90) days ("Warranty Period"), provided that the Software is properly installed on approved hardware and operated as contemplated in its documentation. D-Link further warrants that, during the Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects. D-Link's sole obligation shall be to replace the non-conforming Software (or defective media) with software that substantially conforms to D-Link's functional specifications for the Software or to refund at D-Link's sole discretion. Except as otherwise agreed by D-Link in writing, the replacement Software is provided only to the original licensee, and is subject to the terms and conditions of the license granted by D-Link for the Software. Software will be warranted for the remainder of the original Warranty Period from the date or original retail purchase. If a material non-conformance is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to replace the nonconforming Software, the price paid by the original licensee for the non-conforming Software will be refunded by D-Link; provided that the non-conforming Software (and all copies thereof) is first returned to D-Link. The license granted respecting any Software for which a refund is given automatically terminates.

Non-Applicability of Warranty: The Limited Warranty provided hereunder for hardware and software of D-Link's products will not be applied to and does not cover any refurbished product and any product purchased through the inventory clearance or liquidation sale or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product and in that case, the product is being sold "As-Is" without any warranty whatsoever including, without limitation, the Limited Warranty as described herein, notwithstanding anything stated herein to the contrary.

Submitting A Claim: The customer shall return the product to the original purchase point based on its return policy. In case the return policy period has expired and the product is within warranty, the customer shall submit a claim to D-Link as outlined below:

The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow D-Link to confirm the same.

- The original product owner must obtain a Return Material Authorization ("RMA") number from the Authorized D-Link Service Office and, if requested, provide written proof of purchase of the product (such as a copy of the dated purchase invoice for the product) before the warranty service is provided.
- After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. Do not include any manuals or accessories in the shipping package. D-Link will only replace the defective portion of the Product and will not ship back any accessories.
- The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery ("COD") is allowed. Products sent COD will either be rejected by D-Link or become the property of D-Link. Products shall be fully insured by the customer and shipped to D-Link Systems, Inc., 17595 Mt. Herrmann, Fountain Valley, CA 92708. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via UPS Ground or any common carrier selected by D-Link, with shipping charges prepaid. Expedited shipping is available if shipping charges are prepaid by the customer and upon request.

D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link's reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.

What Is Not Covered: This limited warranty provided by D-Link does not cover: Products, if in D-Link's judgment, have been subjected to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tampered with, defaced or removed; Initial installation, installation and removal of the product for repair, and shipping costs; Operational adjustments covered in the operating manual for the product, and normal maintenance; Damage that occurs in shipment, due to act of God, failures due to power surge, and cosmetic damage; Any hardware, software, firmware or other products or services provided by anyone other than D-Link; Products that have been purchased from inventory clearance or liquidation sales or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product. Repair by anyone other than D-Link or an Authorized D-Link Service Office will void this Warranty.

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CE Mark Warning: This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

FCC Statement: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Registration

Register online your D-Link product at http://support.dlink.com/register/