## D-Link DI-804HV Broadband Hardware <sup>™</sup> 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:

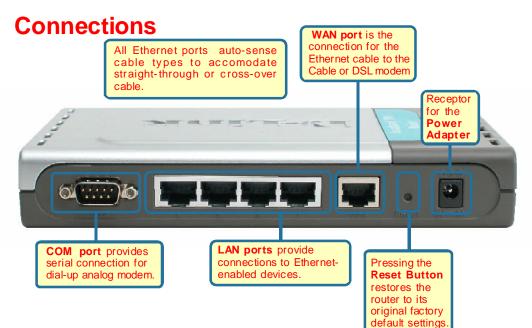
- Ethernet-Based Cable or DSL Modem
- Computer with Windows, Macintosh, or Linux-based operating system with an installed Ethernet adapter
- Internet Explorer version 6.x or Netscape Navigator version 6.x and above, with JavaScript enabled

## 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 and office resources sharing. 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.



## 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
- VPN Pass-Through supported Supports pass-through VPN sessions and allows you to setup VPN server and VPN clients
- Firewall All unwanted packets from outside intruders are 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 User can define the attributes to support special applications requiring multiple connections, like Internet gaming, video conferencing, Internet telephony and so on. The DI-804HV can sense the application type and open a multi-port 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 makes up 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.) On the other hand, wireless networks do not use wires; instead they communicate over radio waves. Each computer must have a Network Interface Card (NIC), which communicates the data between computers. ANIC is usually a 10Mbps network card, or 10/100Mbps network card, or a wireless network card.

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 the corporate network from home using VPN, allowing the employee to access files and printers. 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.

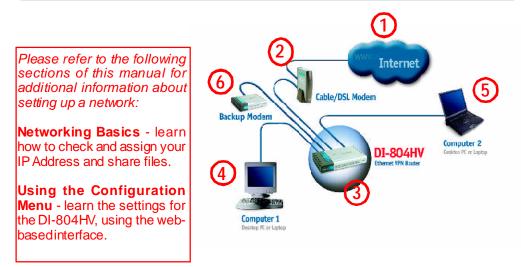
## LEDS

**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**

## With its default settings, the DI-804HV, when activated, will connect with other D-Link Express Ethernetwork products, right out of the box.



## For a typical network setup at home (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, you can install the D-Link *DFE-530TX*+ ethernet adapter into an available PCI slot. (See the Quick Installation Guide included with the DWL-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.)



The Modem can be used as a dialup backup for xDSL/Cable connection

Whenever you want to configure your network or the DI-804HV, you can access the Configuration Menu by opening the web-browser 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

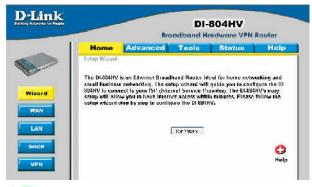
the DI-804HV (http://192.168.0.1)

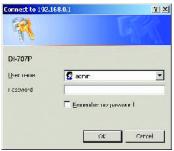


Note: If you have changed the default IP Address assigned to the DI-804HV, make sure to enter the correct IP Address.

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





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



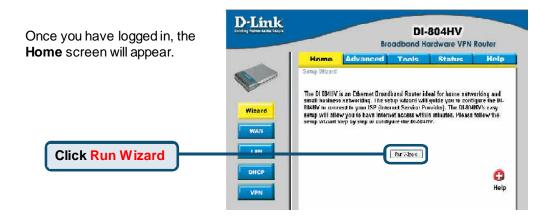
Clicking **Help** will bring up helpful information regarding the page



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

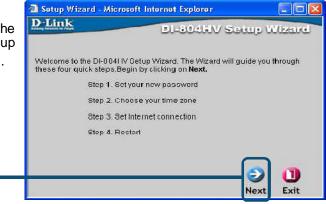
Restart

#### **Setup Wizard**



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

Click Next



#### Setup Wizard > Set Password



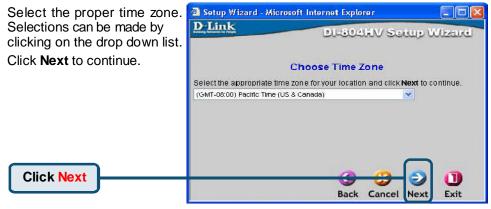
**Old Password-** This information is masked.

**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.

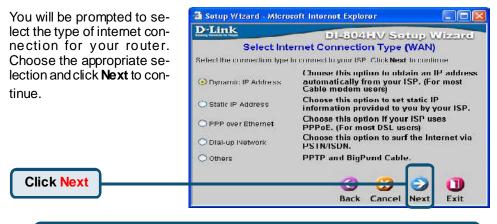
#### Setup Wizard > Time Zone

#### Select the appropriate time zone for your location-



#### Setup Wizard > Connection Type (WAN)

#### Select Your Internet Connection-





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

	🗿 Setup Wizard - Microsof	t Internet Explore	81	
	<u>D-Link</u>	DI-8041	W Setup V	lizerd
	Set	Oynamic IP Ad	dress	
	If your ISP require you to e address, please enter it ir copy the MAC address of <b>Next t</b> o continue.	n. The Clone MAC A	ddress button is u	sed to
	Host Name		(optional)	
	MAC Address	FF-FF-FF-FF-FF	(optional)	
		Clone MAC Address		
Click Next		G		m
		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 <b>Next</b> to continue.

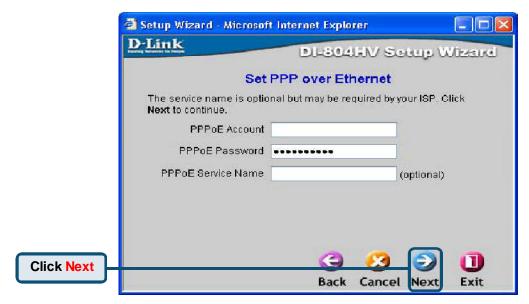
Setup Wizard > Set Static IP Address

	🗿 Setup Wizard - Microsof	it Internet Explo	rer	
	D-Link	DI-804	HN Se	iup Wizard
	Se	t Static IP Add	dress	
	Enter in the static IP inform to continue.	mation provided to	you by your	ISP. Click Next
	WAN IP Address	0.0.0.0		
	WAN Subnet Mask	255.255.255.0		
	WAN Gateway	0.0.0.0		
	Primary DNS	0.0.0.0		
	Secondary DNS	0.0.0.0		
Click Next		G	(23)	[]
		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 selected, then this screen appear. Enter the IP address information 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 Seconday DNS can be found by contacting the ISP.

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

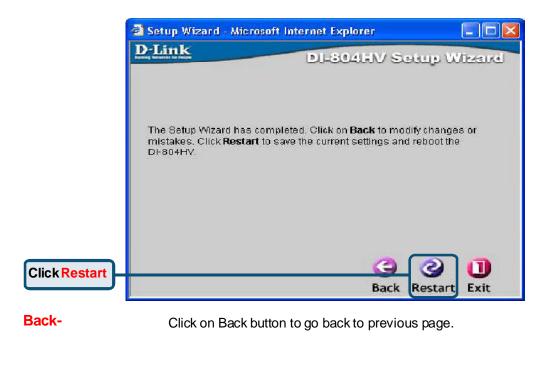
## Using the Configuration Menu Setup Wizard

	🗿 Setup Wizard - Microsof	t Internet Explo	rer		
	<u>D-Link</u>	01-804	HV Se	للا ويدة	likasural
	Se	t Dial-up Net	work		
	Dial-up Telephone				
	Dial-up Account				
	Dial-up Password	•••••	(1		
	Primary DNS	0.0.0.0			
	Secondary DNS	0.0.0.0			
Click Next		0	8		0
		Back	Cancel	Next	Exit

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-upAccount-	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 Seconday DNS can be found by contacting the ISP.

#### **Setup Wizard**



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

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

#### Home > WAN

		Bro	adband H	ardware VPN	Router
Home	Adva	nced	Tools	Status	Hel
WAN Setting Please select	js the appropriate	option to co	onnect to your ISP	÷.	
🛞 Dynamio	IP Address			btain an IP address a t Coble modem user	
🔘 Static IP	Address		e this option to s your ISP.	et static IP information	n provided to
O PPP ove	r Ethern et	Choos ucorc)	e this option if yo	ur ISP uses PPPoE. (	(For most DSI
🔿 Dial-up l	Network	To suit	the Internet via F	STN/ISDN.	
O Others		PPTP a	nd BigPond Cab	ile:	
Dynamic IP	Address				
Hust Name			(op)	tional)	
Renew IP For	ever	💌 En	able (Auto-recon	nect	
WAN'S MAC A	ddress	FF-FF-F	F-FF-FF-FF	Clone MAC	

#### **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
PPP over Ethernet-	Some ISPs require the use of PPPoE to connect to their services (mainly for DSL users)
Others-	
PPTP-	For use in Europe only
Big Pond Cable	- For use in Australia only

### Using the Configuration Menu Home > WAN > Dynamic IP Address

	Broadband Hardware VPN Router
Home Adv	anced Tools Status Help
WAN Settings Please select the appropri	ate option to connect to your ISP.
🔞 Dynamic IP Address	Choose this option to obtain an IP address automatically from your ISP. (For most Cable modem users)
🕥 Static IP Address	Choose this option to set static IP information provided to you by your ISP.
O PPP over Ethern et	Choose this option if your ISP uses PPPoE. (For most DSL usors)
🔿 Dial-up Network	To suif the Internet via PSTN/ISDN.
O Others	PPTP and BigPond Cable:
Dynamic IP Address	
HustName	(optional)
Renew IP Forever	Enable (Auto-reconnect)
WAN's MAC Address	FF-FF-FF-FF-FF Clone MAC

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 host name is the device name of the Router.
Renew IP Forever-	Enable this feature to allow the router to automatically reconnect to the ISP if the connection drops.
MAC Address-	The default MAC Address is set to the WAN's physical inter- face MAC address on the Router.
Clone MAC Address-	This feature will copy the MAC address of the Ethernet card, and replace the WAN MAC address of the Router with this Ethernet card MAC address. It is not recommended that you change the default MAC address unless required by your ISP.

Home > WAN > Static IP Address

1				Router
Home	Advanced	Tools	Status	Help
WAN Settin Please select	<b>ys</b> : the appropriate option t	o connectto your IS	BP.	
🔘 Dynami			ublain an IP address ost Cable modem use	
🛞 Static IP		iuse this option to by your IGP.	sel static IP informatio	un provided lo
	r Elhernel Chr use		our ISP uses PPPoF	(For must DSI
🔘 Dial-up	Nelwork To s	soff the Internet via	PSTN/ISDN	
🔿 Others	PPT	P and BigPond Ca	able.	
Static IP Ad	Idress			
WAN IP Addr	ess U.U.	0.0		
WAN Subnet	Mask 255	.255.255.0		
VVAN Gatewa	y 0.0.	0.0		
Primury DN8	0.0	0.0		
Secondary D	NS 0.0.	0.0		

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

- WAN IP Address- Input the IP Address provided by your ISP
- WAN Subnet Mask- Input the Subnet Mask provided by your ISP
- WAN Gateway- Input the Gateway address provided by your ISP
- Primary DNS- Input the primary DNS address provided by your ISP
- **Secondary DNS-** (Optional) Input the Secondary DNS address provided by your ISP.

#### Using the Configuration Menu Home > WAN > PPPoE

	Home Adva	nced Tools Status Help
н	WAN Settings	e option to connect to your ISP.
	🚫 Eiynamic IP Address	Choose this option to obtain an IP address automatically from your ISP. (For most Cable modern users)
	🚫 Ctatic IP Adidress	Choose this option to set static IP information provided to you by your ISP.
	💿 PPP over Ethernet	Choose this option if your ICP uses PPPoE. (For most DCL users)
	C Ellal-up Network	To surfithe Internet via POTM/ICDM.
	O Uthero	I'l'II' and Digliond Gable.
	PPP over Ethernet	
	PPPoE Account	
	PPPUE Passwurd	
	Primury DN8	0.0.0
	Secondary DNS	0.0.0.0
	Maximum Idle Time	U seconds 🔽 Auto-reconnect
	PPPuE Service Name	(optional)
	Assigned IP Address	0.0.0.0 (optional)
	MTU	14/12 (range:1000~1492)

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

PPPoE Account-	Your PPPoE username provided by your ISP
PPPoE Password-	Your PPPoE password is provided by your ISP
Primary DNS-	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> .
PPPoE Service Name-	(Optional) Check with your ISP for more information if they require the use of service name.
Assigned IP Address-	(Optional) Enter in the IP Address if you are assigned a static PPPoE address.
MTU-	<i>Maximum Transmission Unit</i> ; default is 1492; you may need to change the MTU to conform to your ISP.

Home > WAN > Dial-up Network

Home	Advanc	ed	Tools		Status	1	Help
WAN Settings Please select th	e appropriate op	tion to co	nnect to yo	ur ISP.			
🔿 Dynamic IF	- Address	Choose from yo	this option ir ISP (Fur	to obtai mucil Ga	n an IP addres: able modern ie	s autom	atically
🔿 Static IP Ad	ldress	Choose yuu by y		to set s	tatic IP informa	tion prov	rided to
O PPP over b	:themet	Choose	this option	i it your P	3P uses PPPol	=. (For n	nost DSL
lo Dial-up Ne	twork	lo suit	the Internet	via PS I	NASUN.		
O Others		PPTP u	nd BigPond	i Guble.			
Dial-up Netwo	ork						
 Dial op Telephi	un:						
 Dial-up Account	Ĺ	1					
Ellal-up Passwo	ord			1			
Maximum Idle T	'ime	0	second	a 🗹 Aut	o-reconnect		
Daud Rate		57600	💌 bpu 🗖	Disubl	e auto dial		
Primary DNG		0.0.0.0		1			
Gecondary Divid	)	0.0.0.0		1)			
 Assigned IP Ad	dress	0.0.0.0		(option	al)		
Extra Settings							

Most Dial-up users will select this option to connect to their ISP through an analog dialup 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-upAccount-	Username provided by your ISP
Dial-up Password-	Password provided by your ISP
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.
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 PPPoE address.
Extra Settings-	This setting is used to optimize the communication quality be tween the ISP and your analog dial-up modem. (Initialization
24	string) - optional.

#### Using the Configuration Menu Home > WAN > PPTP

	and a second		Construction of the owner of the	
Home	Advanced	Tools	Status	Help
WAN Settings Please select the s	opropriate option to c	onnectio your ICP.	3	
O Cynamic IF A			tain an iP address au Cable meriorn licers	
Static IP Addr		se this option to se type: 8-	tstatic I= nformation	pioviced to
PP over Eth	10.0.15	)	r ISP Jees PPPcE. (F	ci mostE8.
🔿 Clal-up Netw	ik To'eu	tilhe internet via PS	STIMSEN.	
Olifera	TOTO	and TigPurd Cald	-	
🛞 P-TF	Clor Eu	urope use only		
🗢 8 qPond	able (fur Au	iorelia ape only)		
PP1P				
My PiAtrician	0000	2		
Wy subret Vask	255.25	552550		
Cerver P Address	0.0.00	2		
PPTP Account				
PPTP Pasoword				
Connection ID			(optional)	
Maginaum Irlia Tim	a (0	oocondo 💌 Aa.	o reconnect	

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

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 <i>Autoreconnect</i> .

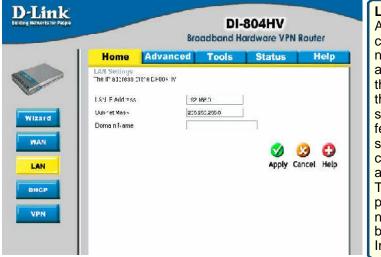
#### Home > WAN > BigPond Cable

	No. of Concession	1			_
	Home	Advanced	Tools	Status	Help
	WAN Settings Please select the	e appropriale oplion lo	connect to your ISF	<b>5</b>	
	O Dynamic IP			htain an IP arlthress ar t Cloble modern users	
	🔿 Static IP Ad		ise this option to si y your ISP.	et static IP information	of Inahivoru
	O PPP over F	thernet Chor uson		ur ISP uses PPPoF (F	For most D8L
	🔿 Dial-up Net	twork To si	of the Internet via F	'STN/ISDN	
Ш	🕞 Others	PPTF	ond BigPond Cak	lo.	
	O PPTP	(fur E	urope use only)		
	📀 Higi 'nn	d Cable (for A	ustralia use on <b>l</b> y)		
l	Dynamic IP A	ddress for BlgPond			
	Account				
	Payeword				
	Login Server			(optional)	
	Renew IP Forev	er 🗾 🖬	Enable (Aploacon	ກຍເມ	

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

Account-	Enter in the username for the BigPond account
Password-	Enter the password for the BigPond account
Login Server-	(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



LAN is short for Local Area Network. This is considered your internal network. 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: <b>192.168.0.1</b>
Subnet Mask-	The subnet mask of the LAN interface. The default subnet mask is <b>255.255.255.0</b>
Domain Name-	(Optional) The name of your local domain

## Using the Configuration Menu Home >DHCP

s for People		Bro		804HV ardware VPN	Router
1	Home	Advanced	Tools	Status	Help
	DHCP Server The DI-804HV ca	n be setup as a DHCP S	Server to distribut	te IP addresses to the	e LAN network.
	DHCP Server	💿 En:	abled 🔘 Disabli	ed	
	IP Pool Starting	Address 192.16	8.0.100		
	IP Pool Ending A	ddress 192.16	8.0.199		
	Lease Time	1 WEE	< 💌		
				💋 Apply C	🥴 😋 ancel Heli
	DHCP Clients L				
	IP Addre	ess Hos	t Name	MAC Add	ress

**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.
IP Pool Starting Address-	The starting IP address for the DHCP server's IP assignment.
IP Pool Ending 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 <b>Refresh</b> 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

#### **D**-Link DI-804HV **Broadband Hardware VPN Router** Advanced Home Tools Status Help Selling liem VPH 🛄 Enuble Nel-ID38 fm art : #1 Enable. Wizard 0 Max. number of tunnels WAN ID Foursel Narrow Melhod Vore 1 IKE LAN ž. Vore INL Vote 5 HEL DHCP 4 Verr INF Vure £ IKF VPN 1 . 00 O Apply Cancel Help

**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.
Tunnel Name-	Create a name for the tunnel.
Method-	IPSec VPN supports two kinds of key-obtained methods: manual key and automatic key exchange. Manual key approach indicates that the two endpoint VPN gateways require setting up authentication and encryption key by the Administrator manually. However, IKE approach will perform automatic Internet key exchange. Admins of both endpoint gateways will only need to set the same pre-shared key.
More-	For more indepth configuration to adjust manual key or IKE method settings, click <b>More.</b>

Home >VPN Settings > Tunnel (IKE)

312	The second second		-		
5	Home	Advanced	Tools	Status	Help
	VPN Settings	Tunnel 1			
		tem		Setting	
	Tunnel Name				
	Aggressive Mri fe	i.	Enatle		
	Local Subnet		0000		
	Local Nethrask		0.0.00		
	Remcte Subnet		ααυο		
	Remote Netmas	к	ααου		
	Remule Galewar	e	0000		
	Preshale Key				
	IKE Proposal inc	lex	Gelect IKE Pro	posal	
	IPGec Proposal i	ndex	Selec: IPSec	Pmposal	

- 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.
- 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 > Tunnel Continued...

D-Link Bellifing Networks for People			and the second second	-804HV	
	Home	Advanced		lardware VPN Status	Kouter Help
	VPN Settings		TOOIS	Status	merp
Carlos and		Item		Setting	
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Wizard	Aggressive Mini	1F	L Enable		
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WAN	Local Netmask		0.0.0.0		
LAN	Remote Subhet Remote Netma		0.0.0.0		
LAN	Rerr ule Galewa		000.0		
DHCP	Preshare Key				
	IKE Proposa in	dex	Selec: IKE Pro	oposa	
VPN	IPSec Proposal	index.	Seder I IPSer:	Propassel	
				G 🔮 🥑 🄇 Back Apply Ca	Solution Contracts (Contracts) Solution Contracts (Contracts) Solution Contracts) Solution (Contracts) Solution (C
Remote Subne	ca	n be a host,	a partial s	e VPN gatew subnet or a w	hole sub
Remote Netmas	ca	e subnet of n be a host, bnet.	the remote a partial s	e VPN gatew subnet or a w	ay's loca hole sub
Remote Gatewa	<b>ay-</b> Th	e WAN IP a	ddress of	remote VPN	gateway
Preshared Key	ga	iteways for	negotiating	rts IKE mech g further secu same for bot	urity keys
KE Proposal ir	pro		select fro	a set of freq m the set of I	
PSec Proposa index-	pro	ick the butto oposals and dicated tunr	select fro	a set of freq m the set of I	uent-use KE propo

#### Home >VPN Settings > Tunnel (Manual)

Home	Advanced	Tools	Status	Help
VPN Settings	-Tunnel 1			
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Appressive Mu	de	Elenable		
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Encryption Aliqu	anthern	SCES 🔛		
Encryption Key (Fur ESP Only)				
WCI ESP SINV			(MERDER UNLT)	
		-	(IOT SDES ONLY)	
Authentication.		NONE 💌		_
Authentication	K.ey			
Life firme		0		
Life Time Unit		Second 😁		

**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.

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

Home >VPN Settings > Tunnel (Manual)

Home	Advanced	Tools	Status	Help
VPN Settin	as - Tunnel 1			
	ten		Setting	
mined Nam	11			
Appressive 1	Aude	I lenable		
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Loca Netro		00.00		
Remote Cut	nət	0.0.00		
Remule Nel		0000		
Hemote Got	nway	0.0.00		
Method		MANUAL		
Loca SPI		CX 00000		
Remote 111		Cilinnon		
Encopediate	or Protocol	ESP 💙		
Encryption //	lyonthen	30E6 🔜		
Encryption M (Fur ESP On				
(FCIESF DI			(MESDES UNE?)	
		and the	(IOF 3DES ONLY)	
Authenticatio		NONE M		_
Authenticatio	in Key			
Life firme	82	0		
Life Time Ur	ut	Gesene 😁		

Remote SPI-	The value of remote SPI should be set in hex format.
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 Char.) For 3DES, the encryption key is 24 bytes (48 Char.)
Authentication Algorithm-	SHA1 or MD5 algorithm can be selected.
Authentication Key-	For MD5, the authentication algorithm is16 bytes. (32 Char.) For SHA1, the authentication algorithm is 20 bytes.(40 Char.)
Life Time-	Enter in the life time value.
Life Time Unit-	There are two units that can be selected: second and KB.

#### Home >VPN Settings > Tunnel > Set IKE Proposal

and the second sec	I Tools	s Sta	tus	He
Tunnel 1 - Set IK	E Proposal			
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Group 🖞 🔛	20168 🐸	EHA1 🔛	23	Hire:
Group · 😽	3DES 🛩	SHA1 🔜	0	Sec.
Group * 🔛	3DEG 🔜	SHA1 😒	0	Goc.
Grenup	ades 💌	SHAT S	O	29 m.
Group 🔫	3DE6 😽	EHAI 😽	0	Sec.
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	tern do. areup * e Group * e	dux.  France	tern Settin du. Finny Provide Settin group - W SDCS W SHAT W Group - W SDCS W SHAT W	Bern         Setting           dob.         Fmp.y         Permave           mme         D11 Druop         Er crypt algorithm         Aubr algorithm         Life Time           Group *         3DCS *         SHA1 *         0           Group *         3DCS *         SHA1 *         0           Group *         3DCS *         SHA1 *         0           Group *         3DLS *         SHA1 *         0           Group *         3DES *         SHA1 *         0

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

- **Proposal Name-**It indicates which IKE proposal to be focused. First char of the name with 0x00 value stands for the IKE proposal is not available.
- 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.
- Authalgorith- There are two algorithms that can be selected: SHA1 and MD5.

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

Home	Advanced	Tools	: Sta	us	Help
VPN Settings -	Tunnel 1 - Set IKE	Proposal			
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		1	Hamaria]		
		R			
ID Proposa Na		mithreals laws	17.		
1	Group 1 🛁	3005 🛩	SI AI 🛩	C	Sec. 💌
2	ւշտար լ 🔛	aces 😪	SFAI 🔛	C	bire:
3	Сканр 1 😽	ADES 😽	RHAI 😽	n	Per: 😽
4	Group 1 😒	3003 🥣	SI A1 😭	[C	Sec. 💙
5	Group 1 🔛	SELS 😪	SI A1 😪	G	Goc. 😭
FI	Chemps 1 😽	30HB 😾	HHAI 😽	R.	Per: 4
1	Group 1 💌	SEES 😒	SHA1 🔜	c	500 ×
0	Group 1 💌	SEES 🛩	SI AI 🔛	C	Gee 💌
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10 L	Gioup I 😽	SCES 😽	EFAI -	C	Ew: +

Life Time- Enter i	n 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 > Set IPSEC Proposal

Home	Advan	ced	Tools	Status		He
VPN Settinge	Tunnel 1 S	er IPSEC P	roposal			
1451 AL	kem			Setting		
IPSec Proposa	l Index	- Em	pty -			
			Theres	2/14		
IE Proposal Name	F/H Omup	Encap	Encrypt	Auth	Linac	Unit
1	Nkares 😒	FSP 😽	SDEB	Nomes 📟	0	Pre:
2	None 💌	CSP 💌	SDES 💌	None 😽	0	Sec.
3	Nono 💌	LSP 🐱	SDLS 😒	Nono 😒	U	Sec.
4	Name 4	HBP 🐱	30FB 🖌	Neames 😼	0	Pier:
5 L	None 💌	ESP 🔜	SDE6 💌	None 🔜	0	E40.
٥ <u> </u>	Nono 📷	Lar M	SDES 😒	Nono 😒	V	600,
7	Nearen 😪		30+5	Neaura 🔛	13	Sec.
8	None 😽	ESP 🕶	3DES 🛩	None 🛩	0	Ew.
9	None 💌	CSP 💌	3DEG 🛩	None 💌	0	Gec.
1.0	fdenn i 😽	1.246 💌	361.01 .56	Distance 🔛	C	28.8.
	Proposal ID	seedes::1.com	A Vald to	Proposal ind	ex	
		-		· · · · · · · · · · · · · · · · · · ·		

IPSec Proposal index-	A list of selected proposal indexes from the IPSec proposal pool listed below.
Proposal Name-	It indicates which IPSec proposal to be focused. First char of the name with 0x00 value stands for the proposal is not available.
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 algorith-	There are two algorithms that can be selected: 3DES and DES.
Auth algorith-	There are two algorithms that can be selected: SHA1 and MD5.

#### Home >VPN Settings> Tunnel > Set IPSEC Proposal Continued...

Hom	e Advan	ced	Tools	Status		He
VPN Settle	nge lunnel1 S	et IPSEC P	roposal			
1000	tem	1.00		Setting		
IPOec Prop	posal Index	- Em	ipty -			
			[ Theres	2/140		
In Propos.	al Fill Omun	Encap	Encrypt	Auth	l lia	I tie Th
1 Name	None 🐨	protocol	algorithm ADES	Algorithm Nomes	Linac	Unit
2	None		SDES V	None 👻	0	Gec.
2	Nono	a horizonte and a	SDLS -	Nono 😪	0	Sec.
4	Name 4		SUF8	Nemes 9	0	Mer:
5	None		SDE6	None 💌	0	640.
6	Nono 💌	Prophylic and	SDLS M	Nono 😒	V	G06.
7	Nkaren 😪	HSP W	30 - 5	Neanes 😣	10	Sec.
	None 😽	ESP 🕶	3DES 🛩	None 🔜	0	Ew.
9	None 💌	CSP 😪	SDEG 💌	None 💌	0	Sec.
10	Pakawa 😒	1 XH 💌	AD1 56	The since 🔛	0	24.6.
	Proposal I	) :e-des:1 can		Proposal inde		
	Proposal II	D seeless I cou	H Vald to	Proposal ind	ex	

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 Advanced > Virtual Server

ks for People			Broa		304HV rdware VP	N Route	er
	Home	Adva	nced 🗧	Tools	Status	I F	lelp
	irtual Server rtual Server is us	ed to allow	Internet users	s access to LAN	services.		
π	D	1					
	nable	🔲 Enable	3				-
8	ervice Ports			Well known	services: sele	ect one 💌	
8	ervice IP	192.168.0.					
8	chedule	O Always					
		🔘 From	time 🛛 💙	: 00 🗙 To 00 🔹	- 00		
			day Sun 💟	to Sun ⊻			
					<b>S</b>	83	0
					Apply	Cancel	Help
	Service Ports		Server IP	Schedule			

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.

ID-	The ID number is automatically assigned
Enable-	Select to activate the policy
Service Ports-	Enter in the service port or ports to be used. A range of ports can be specified with a hyphen. <i>(e.g., 20-21)</i>
Well known services-	Use the pull-down menu to select from a list of well-known virtualservices
Service IP-	The IP address of the internal computer that will be using the virtualservice
Schedule- 38	Select <b>Always</b> , or choose <b>From</b> and enter the time period dur- ing which the virtual service will be available

Advanced > Application

<b>-Link</b> g Networks for People		Bro		804HV ardware VPN	Router
	Home	Advanced	Tools	Status	Help
	Special App Special Applic	lication ation is used to run applic:	ations that require	multiple connections	17
	ID Trigg	er	Incoming Por	ts	Enable
	1				
tual Server	2				
plication	3				
pheadon	4				
Filter	5				
	6				
SNMP	7				Г
	8				
DDNS	9	— i			
	10	- i			
outing		Popular applications s	elect one 💌	Copy to ID	Ē
DMZ				💋 🌔 Apply Ca	3 CD

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 use them, select one from the drop down list and select an ID number you want to use. Then click the "Copy to" button and the router will fill in the appropriate information to the list. You will then need to enable the service. 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.

Trigger-	This is the port used to trigger the application. It can be either a single port or a range of ports.
Incoming 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.
Enable-	Select to activate the policy

#### Advanced > MAC Filters

	Advanced	ools Status	Hel
Filter Filters are used	to allow or deny LAN users fro	m accessing the Internet.	
MAC Filter	C IP Filter	C Domain Filter	
and the second second	IAC Filters computers with MAC address computers with MAC address I		
ID	MAC Address	3	Enable
1			
2	10		-
2 3			
3	HCP clients select one	Copy to ID	

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 and select an IP number you want to use. Then click the "Copy to" button and the DI-804HV will fill in the appropriate information to the 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
Enable-	Select this option for the specific IP filter policy to take effect.
40	

#### 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.

Networks for People		Bro		-804HV lardware VPN	N Router
	Home	Advanced	Tools	Status	Help
ual Server Plication Filter DDNS outing	C MAC Filter IP Filter Use IP Filters to C Allow all co	C Always	er access to the In nternet except th ternet except th oled	C Domain Filter ternet. nose listed below. ose listed below.	
DMZ				🤡 Apply	2 🛟 Cancel Help
	IP Ran	ae Port Ra	000	Schedule	

#### **Disabled IP Filter-**

Select this option if you do not want to use IP filters.

#### Allow all computers to access the Internet except those listed below-

Those in the list will be denied access to the Internet; all other computers will be allowed access to the Internet.

#### Deny all computers access to the Internet except those listed below-

Select this option to deny all computers access to the Internet except those that are listed below. All other computers will be denied 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-

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-

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 > Domain Filter

		Bro	adband H	ardware VPN	Router
	Home	Advanced	Tools	Status	Hel
	Filter	allow or deny LAN use		www.alleward.com	
	C MAC Filter	C IP Filte		Domain Filter	
	Domain Filter				
	Oisabled Do	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	ana ana amin' a si an	AND THE OWNER OF THE OWNER OWNER	
		to access the following to access the following			
	C Deny users	to access the following	omains and p	ermit all other domain:	5.
	ID	Domain Suff	x	A	ction
	া		]	E	Log
	2	[		E	Log
	3			E	Log
	4	1		-	Log
	4	1			LUG
L	5	1			Log
					3676
	5			Г Г	Log
	5 8				log Log
	5 6 7				l Log l Log l Log

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

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

#### Allow users to access the following domains and block all other 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 the following domains and permit all other 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.

Domain suffix-	Enter in the domain suffix of the Internet domain you want to use. (example: shopping.com, sports.net)
Log-	Select this option to log usage to the specified domain. The

Select this option to log usage to the specified domain. The logs can be viewed in Status > Log.

## Using the Configuration Menu Advanced > SNMP

D-Link Building Networks for People		Bro		804HV ardware VPN	Router
	Home	Advanced	Tools	Status	Help
	SNMP Use Simple Netwo	ork Management Protoc	ol(SNMP) for DI-	804HV management	purposes.
No.	Enable SNMP	💌 Loca	I 🗌 Remote		
Virtual Server	Get Community	public			
	Set Community	private			
Application Filter				🍼 ( Apply Ca	3 🛟 ancel Help
DDNS					
Routing DMZ					

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.

Enable SNMP-	(Simple Network Management Protocol)
Local-	LAN (Local Area Network)
Remote-	WAN (Wide Area Network)
Get Community-	Enter the password <b>public</b> 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 <b>private</b> in this field to gain "Read and Write" access to the network using SNMP software. The administrator can configure the network with this setting.

## Advanced > DDNS

D-Link	DI-804HV				
Building Networks for People	Broadband Hardware VPN Router				
Virtual Server Application Filter SNMP DDNS Routing	Home Dynamic DNS Use Dynamic DNS Provider Host Name Username / E-mal Password / Key	DynDNS.org(	Tools DDNS account.	Status	Help

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 <b>Disabled</b> or <b>Enabled</b>
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

D-Link fullding Networks for People			Bro		804HV ardware VPN	Router
	Ho	ome A	dvanced	Tools	Status	Help
		g Table Routing Table	for routing purpos	es within your lo	cal network.	
	ID	Destination	Subnet Ma	sk Gate	eway Hop	Enable
Virtual Server	1		2			
	2					
Application	3					
	4					
Filter	5					
SNMP	6					
SNMP	7					
DDNS	8					
Routing					Solution Apply C	沒 🛟 ancel Help

Routing Tables allow you to determine which physical interface address to use for outgoing IP data grams. If you have more than one routers and subnets, you will need to enable routing table to allow packets to find proper routing path and allow different subnets to communicate with each other.

Dynamic RoutingDynamic Routing Settings allow the VPN Router to route IP<br/>packets to another network automatically. The RIP protocol<br/>is applied, and broadcasts the routing information to other<br/>routers on the network regularly.<br/>By default, it is set to disable. Check to enable (RIPv1 / RIPv2)<br/>protocol.Static RoutingStatic routing settings allow the VPN Router to route IP packets<br/>to another network. The routing table sorts the routing<br/>information so that your network device knows where to<br/>redirect the IP packets to the proper network.<br/>By default, it is set to disable. To change this configuration,<br/>select enable.

#### Advanced > DMZ

D-Link Building Networks for People		Bro		804HV ardware VPN	Router
	Home	Advanced	Tools	Status	Help
	DMZ DMZ(Demilitariz the Internet.	ed Zone) is used to all	ow a single com	puter on the LAN to	be exposed to
Virtual Server	IP Address	C Enabled € Disa 192.168.0.	bled		
Application				🤣 (	3 🗘 🗌
Filter				Apply C	ancel Help
SNMP					
DDNS					
Routing					
DMZ					

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

Link Networks for People		Bro		804HV ardware VP	N Route	er
	Home	Advanced	Tools	Status	ŀ	lelp
	o	s Toolbox an change their login pa Id Password	ssword.			
Admin	INE	Reconfirm				
Time				3	8	0
ystem				Apply	Cancel	Help
mware	Remote Mana Let administrate	gement r perform administration	task from remote	host.		
Misc		1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	1 © Disabled			
		IP Address 0.0.0.0 Port 8080 💌				
				3	<u>63</u>	0
				Apply	Cancel	Help

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

Password-	To change the admin password, enter in the old password, and 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 interface.
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.8080, 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

letworks for People		Bro		804HV ardware VPN	Router
_ 1	Home	Advanced	Tools	Status	Help
dmin	Set the DI-804H\ Local Time © Enable NTF Default NTF Time Zone	Thu Feb 20 0 Sync Server	0:15:24 2003	Canada)	(optional)
'ime /stem	C Set Device Year: 2003 Hour: 0		nay: 20 💌		
mware				3	3 Cancel Hel

Set the time here by entering it manually or use NTP (Network Time Protocol.) NTP is standard protocol on the Internet that sychronizes the time settings accurately for all the computers on your network.

Enable NTP-	Select to enable NTP and synchronize the time settings on your network using an NTP server
Sync-	Click <b>Sync</b> to activate the synchronization with the NTP server that you input in the default NTP server field
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

D-Link Building Networks for People	DI-804HV Broadband Hardware VPN Router				
	Home	Advanced	Tools	Status	Help
Admin	Backup Setting Load Settings Fi Load	o Local Hard Drive rom Local Hard Drive 测定	Ē		
System Firmware Misc	Reset to Defau				🛟 Help

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 <b>Backup Setting</b> to save the current settings to the local HardDrive
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

r People		Bro		804HV ardware VPN	Router
	Home	Advanced	Tools	Status	Help
	The upgrade pro	eunen.	econds. Notel D	the unit will be restart on: 1.20	
				Browse	

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.

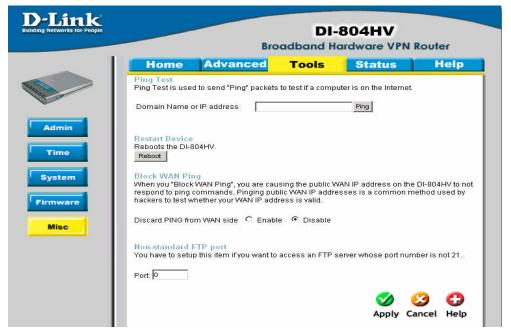
#### **Browse-**

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 ad- dress and click on Ping to test your internet connection.
Restart Device-	Click Reboot to restart the unit.
Block WAN Ping-	Click <b>Enable</b> 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.
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

	Bro		804HV ardware VPN	Router
Home A	dvanced	Tools	Status	He
Device Information	Firmware Versic	m 1 20 Thu lon	20 2002	
LAN	rittiwate versio	iii. 1.20,1110,Jaii	30 2003	
	ress 00-50-18-00	)-0F-01		
IP Add	ress 192.168.0.1			
Subnet M	Mask 255.255.25	5.0		
DHCP Se	e <b>rver</b> Enable			
WAN				
MAC Add	<b>ress</b> 00-50-18-00	)-00-01		
Conne	ction DHCP Clie	nt Disconnected. ew DHCP Re	lease	
Remaining Lease	<b>Time</b> 00:00:00			
IP Add	<b>ress</b> 0.0.0.0			
	<b>dask</b> 0.0.0.0			
	eway 0000			
Domain Name Se	erver 0.0.0.0			
Peripheral				
Dial-up Mo	i <b>dem</b> Notready			
Refresh Device Lime	e: Sat Feb U1 UU:41	1:35 2003		
				1
				н

This screen displays information about the DI-804HV

Refresh-

Click **Refresh** to update the page.

## Using the Configuration Menu Status > Log

) Networks for People		Bro		BO4HV Irdware VPN	Router
	Home	Advanced	Tools	Status	Help
levice Info	advance features	8.			G
Stats		amic IP Address (1.20) it Feb 01 00:00:16 2003			
		ternally / 01, 2003 12:00:05 AM DHC / 01, 2000 12:00:09 AM DHC			
	Saturday, February	01,2000 12:00:09 AM DHC	P:discoven()		

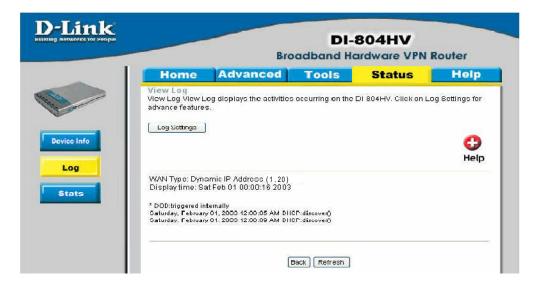
This screen displays activities occurring on the DI-804HV

Log Settings- Click for advanced features (see next page.)

Back- Click Back to return to the top of the log.

**Refresh-** Click **Refresh** to update the log.

#### Status > Log Settings



IP Address of the Syslog Server-	Enter in the IP address of a syslog server within the network. Click <b>Enable</b> to activate the policy. The DI-804HV will send all of it's logs to the specified syslog server.
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.
Send E-Mail alert to-	Enter in the email address of the recipient who will receive the email log.
Send Mail Now-	Click to send mail immediately.

# Using the Configuration Menu Status > Stats

D-Link Inding Networks for People	DI-804HV Broadband Hardware VPN Router				
	Home	Advanced	Tools	Status	Help
	Traffic Statistic Traffic Statistics o Refresh Rese	display Receive and Trai	ismit packets pas	sing through the DI	
	Traffic Statistics c	display Receive and Trai			🔂 Help
	Traffic Statistics o	display Receive and Trai		sing through the DI	🔂 Help

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

D-Link Building Networks for People		Bro		804HV ardware VPN	Router
	Home	Advanced	Tools	Status	Help
	Home Setup Wi WAN LAN DHCP VPN	<u>zard</u>			
	Advanced Virtual Sr Applicatin Filters SNMP DDNS Routing DMZ	erver			
	Tools Admin Time System Firmware MISC	2			
	Status • Device In • Log • Log setti • Stats				
	FAQs				

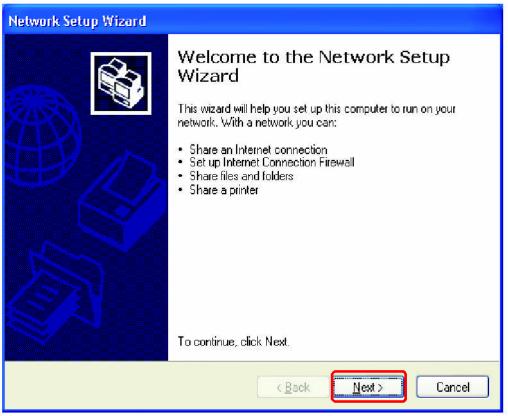
This screen displays the complete  $\ensuremath{\text{Help}}$  menu. For help at anytime, click the  $\ensuremath{\text{Help}}$  tab in the Configuration menu.

## 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.** 

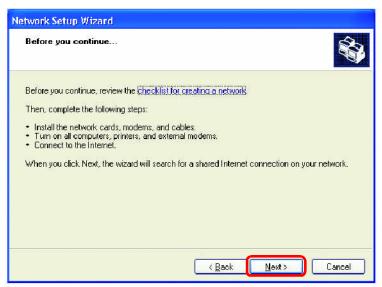
Note: Please refer to websites such as <u>http://www.homenethelp.com</u> and <u>http://www.microsoft.com/windows2000</u> for information about networking computers using Windows 2000, ME or 98.

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



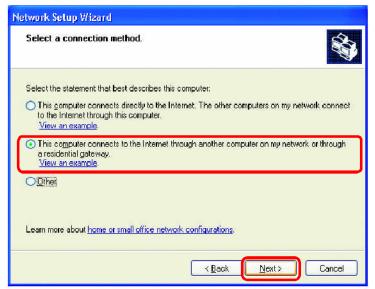
When this screen appears, Click Next.

Please follow all the instructions in this window:

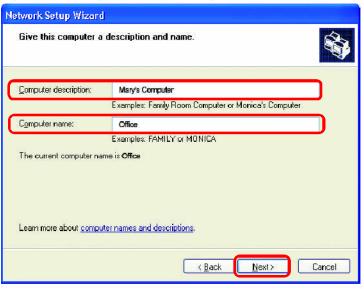


#### Click Next

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.



#### 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.

Network Setup Wiza	rd
Name your network	
Name your network by should have the same	specifying a workgroup name below. All computers on your network workgroup name.
<u>W</u> orkgroup name:	Accounting
	Examples: HOME or OFFICE
	Cancel

Click Next

Please wait while the Network Setup Wizard applies the changes.

Network Setup Wizard
Ready to apply network settings
The wizard will apply the following settings. This process may take a few minutes to complete and cannot be interrupted. Settings:
Network settings: Computer description: Mary's Computer Computer name: Office Workgroup name: Accounting The Shared Documents folder and any printers connected to this computer have been shared.
To apply these settings, click Next.
< <u>Back</u> <u>Next</u> 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**.

Network Setup Wizard
You're almost done
You need to run the Network Setup Wizard once on each of the computers on your network. To run the wizard on computers that are not running Windows XP, you can use the Windows XP CD or a Network Setup Disk.
What do you want to do?
O Create a Network Setup Disk
O ∐se the Network Setup Disk I already have
O Use my Windows XP CD
QJust finish the wizard; I don't need to run the wizard on other computers

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



Format the disk if you wish, and click Next.

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**.

Network Setup Wizard
To run the wizard with the Network Setup Disk
Complete the wizard and restart this computer. Then, use the Network Setup Disk to run the Network Setup Wizard once on each of the other computers on 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 "netsetup."
< <u>Back</u> Next> Cancel

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



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



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 Res	tore	Automa	atic Updates	Remote
General	Compute	er Name	Hardware	Advanced
on the on the on the one on the one of the o	e network. iption: Fo Co		formation to identify y Kitchen Computer'' (	
ull computer na	ame: Offic	8		
/orkgroup:	Acco	unting		
o use the Netw omain and cre ). o rename this (	ate a local us	ser account,		<u>N</u> etwork ID Change

#### Networking Basics Naming your Computer

- In this window, enter the **Computer name**
- Select Workgroup and enter the name of the Workgroup
- All computers on your network must have the same Workgroup name.
- Click OK

Compu	ter Name Changes 🛛 🖓 🔀
compul	n change the name and the membership of this ter. Changes may affect access to network resources. ter name:
Office	•
Office	More
٥	<u>«/</u> orkgroup:
	Accounting
	OK Cancel

#### 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:



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

This wind	dow will appear.	¥ Wireless Network Con	mection 7 Status 👘 🕐 🔀
÷	Click the <b>Support tab</b>	General Support Internet Protocol (TCP/IP) Address Type:	Assigned by DHCP 192,168.0.114
		Subnet Mask: Default Gateway:	255.255.255.0 192.168.0.1 Details
•	Click <b>Close</b>	Repair	

## 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.

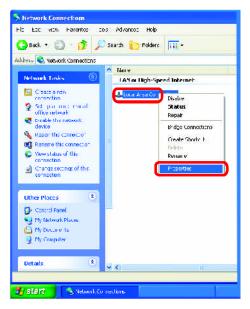
If you are not using a DHCP capable Gateway/Router, or you need to assign a Static IP Address, please follow these instructions:

	Double-click on <b>Control Panel</b>	All Programs  All Con Off  Turn Off Compu	ter
_		Files and Settings Transfer     Image: Settings Transfer       Image: Wizerd     Image: Settings Transfer       Image: Settings Transfer     Image: Settings Transfer       Image: Setting Transfer     Image: Setting Transfer       Image: Setting Transfer     Image: Seting	
	Go to <b>Start</b>	Tour Windows XP	-

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

Double-click on Network Connections





- Right-click on Local Area Connections
- Double-click on Properties

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

1	Advanced		
Connect	t using:		
<b>HB</b>	D-Link DWL-A6	550	
			Configure
This cor	nection uses th	e following items:	<u>Boringuro</u>
-	Client for Micro	2010-00-00 <b>-</b> 00-00-00-	
		sort inetworks Sharing for Microsof	t Natuorka
	QoS Packet Si		INELWOIKS
	Internet Protoc		
and a			
l <u>r</u>	jstall	Uninstall	Properties
l <u>r</u> Descri		<u>U</u> ninstall	Properties
Descri Trans wide	iption mission Control area network pr	Uninstall Protocol/Internet Pro otocol that provides o onnected networks.	otocol. The default
Descri Trans wide acros	ption mission Control area network pr s diverse interco	Protocol/Internet Pro otocol that provides (	tocol. The default communication
Descri Trans wide acros	ption mission Control area network pr s diverse interco	Protocol/Internet Pro otocol that provides o prinected networks.	tocol. The default communication

is capability. Otherwise, you ne e appropriate IP settings.	I automatically if your network supports ed to ask your network administrator for
Obtain an IP address auton Obse the following IP addres	- 15 - 15
IP address:	192.168.0.2
S <u>u</u> bnet mask:	255 . 255 . 255 . 0
<u>D</u> efault gateway:	192.168.0.1
O D <u>b</u> tain DNS server address	automatically
Use the following DNS servers	ver addresses:
Preferred DNS server:	192,168,0,1
Alternate DNS server:	10 8 M

wireless routers have a LAN IP address of 192.168.0.1)

Enter the LAN IP address of the Wireless Router. (D-Link

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

Click OK

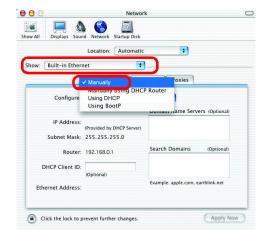
The DNS server information will be supplied by your ISP (Internet Service Provider.) 68

Assigning a Static IP Address with Macintosh OSX

- 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



Input the Static IP Address, the Subnet Mask and the Router IP Address in the appropriate fields 000

1 G Shew A Displa + Location: Automatic Show: Bult-in Ethernet ;1 TCP/IP PPPoE AppleTalk Proxies Configure: Manually + Domain Name Servers (Optional) IF Address 192,168.0.2 Subnet Mask: 255.255.255.0 Router: 192 168.0 1 Search Domains (Optional) example: apple.com, earthlink.net Ethernet Address: D0:09:93:75:de:5a Click the lock to prevent further changes. Apply Now

Network

Click Apply Now

#### Networking Basics Selecting a Dynamic 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 Using DHCP in the Configure pull-down menu

Facat	ion Automatic
c Bult-in Ethernet	
Man	ually loxies UKCE Router
Configure 🗸 Using	g DHCP
Using	g Booti". Dumain Harrie Servers (Optional)
IP Address. (Provide	ed by DHCP Server)
Subriet Mask: 255.2	55.255.0
Router 19216	58.0.1 Search Barnadus agenerati
DICPCientID.	nal;
Ethernet Address:	Example: apple.com, earthlink.no:

Network

000

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

(a) () <b>7</b> (a)	Netw	iork.
Diop ays Sou	ne Network Startup Dis	<b>*</b> /
	Location Automa	lic 📑
suilt-in Ether	rjei	•
		ppleTalk Proxies
Configure:	Using DHCP	•
		Domain Name Servers (Optional)
P Address.		
ubnet Mask:		
Boater	192.168.0.1	Search Domains (Datamati
CP Client ID.		
nat Address	00 06:96:79 ce 5a	Example: opple.com, cardillek.not
	Configure: P Address admet Mask Bouter CP Chen, ID	Dip ap Sourc Network Surtup Dip Leastion: Automa automation: Automa TCP/IP PPPoE A Configure: Using DHCP P Address: 92.188.C180 (Readed to DUCP Search above Mark: 255.255.0 Reader: 192.168.C1 CP Client, ID: Copetar: 3

## 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:

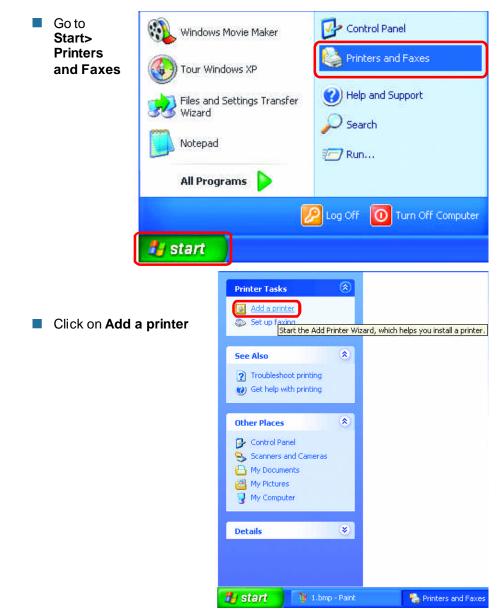
- **1. Adding a local printer**
- 2. Sharing an network printer
- 3. Sharing an LPR printer

#### (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.

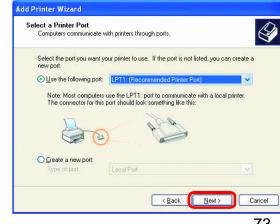
## Adding a local printer (a printer connected directly to a computer)

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.





- Click Next
- Select Local printer attached to this computer
- (Deselect Automatically detect and install my Plug and Play printer if it has been selected.)



- Click Next
- Select Use the following port:
- From the pull-down menu select the correct port for your printer

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

Click Next

73

- 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**.)

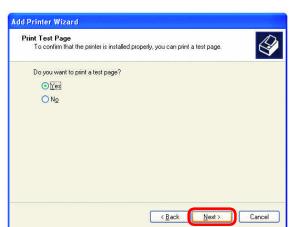
 At this screen, you can change the name of the printer (optional.)

The manufacture	r and model	determine which printer software to use.	Ś
	e Disk. If yo	id model of your printer. If your printer came wil ur printer is not listed, consult your printer docu	
Manufacturer	^	Printers	
Fujitsu GCC	-	W HP DeskJet 400	6
Generic		When the Desk Jet 420	
Gestelner		HP DeskJet 500	
Gestetner HP	Y	STRUP P. LL COOP	
HP	y signed.	Windows Update	Have Disk

Add Printer Wizard	
Name Your Printer You must assign a name to this printer.	9
Type a name for this printer. Because some name combinations of more than 31 charac possible. <u>P</u> rinter name:	
HP DeskJet 500	
	Cancel

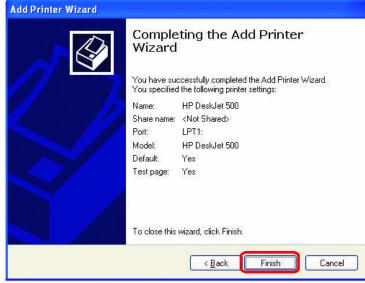


Select Yes, to print a test page. A successful printing will confirm that you have chosen the correctdriver.



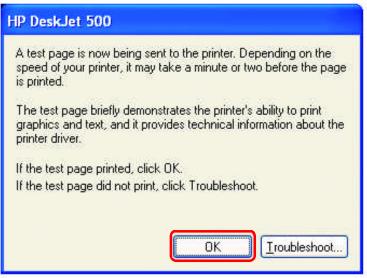


This screen gives you information about your printer.



#### Click Finish

When the test page has printed,

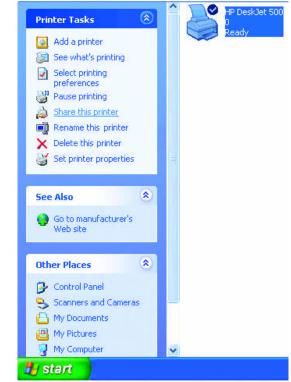


#### Click OK

Go to Start> Printers and Faxes

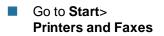
A successful installation will display the printer icon as shown at right.

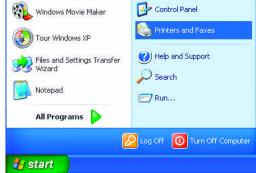
You have successfully added a local printer.



### 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:





# Networking Basics Sharing a network printer





Click Next

Select Network Printer

Click Next

Add Printer Wizard
Local or Network Printer The wizard needs to know which type of printer to set up,
Select the option that describes the printer you want to use:
O Local printer attached to this computer
Automatically detect and install my Plug and Play printer
A network printer, or a printer attached to another computer
To set up a network printer that is not attached to a print server, use the "Local printer" option.
<u>≪B</u> ack <u>N</u> ext> Cancel

## Networking Basics Sharing a network printer

Select Browse for a printer

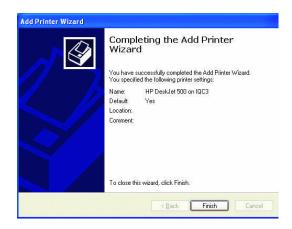


Click Next

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

Click Next

Printer: WQC3VHP DeskJet 500 Shared printers:  MICrosoft Windows Network  DLINK  LINK  I CC2  I CC3  Printer information Comment:		for Printer on the list of printers appears,	select the one you want to use.
Microsoft Windows Network     OLINK     DUNK     IQC2     IQC3     HPDeskJe     HPDeskJet 500      Printer information	Printer:	\\IQC3\HP DeskJet 500	
DUNK     DUNK     DUNK     DOC2     DOC3     HPDeskJet 500     Printer information	Shared	printers:	
		) IQC2   IQC3	HP DeskJet 500
Status: Ready Documents waiting: 0			





# Networking Basics Sharing a network printer

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



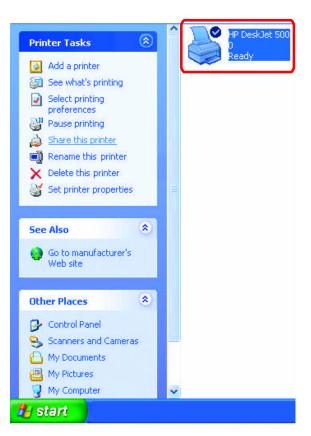
The printer icon will appear at right, indicating proper installation.

# You have completed adding the printer.

To share this printer on your network:

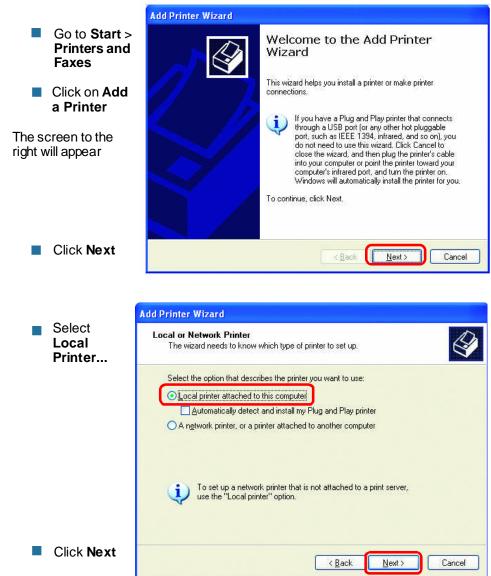
- Remember the printer name
- Run the Add Printer Wizard on all the computers on your network
- Make sure you have already run the Network Setup Wizard on all the network computers

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



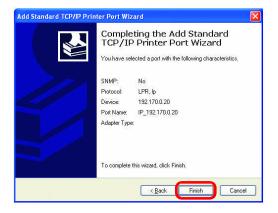
# Networking Basics Sharing an LPR printer

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:



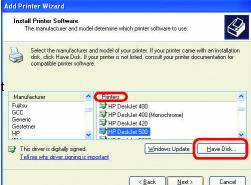
# Networking Basics Sharing an LPR printer

 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.



Click Have Disk

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

Select Keep existing driver



Click Next

# 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
Name Your Printer You must assign a name to this printer.
Type a name for this printer. Because some programs do not support printer and server name combinations of more than 31 characters, it is best to keep the name as short as possible. Printer name: <u>strip Desident 500</u>
<back next=""> Cancel</back>

- 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**.

# 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:

- Turn off the DI-804HV
- 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 Sensing)
- 1 Com Port (Dial-Up Modem)

# **Technical Support**

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

D-Link provides free technical support for customers within the U.K

U.K. ustomers can contact D-Link technical support through our website, or by phone.

Tech Support for customers within the U.K: D-Link Technical Support over the Telephone: Free Phone 0800 917 5063, Mon-Fri 8.00am to 8.00pm

> *D-Link Technical Support over the Internet:* http://www.dlink.co.uk ftp://ftp.dlink.co.uk

