# D-Link DI-704UP

## Express EtherNetwork<sup>™</sup> Broadband Router with USB Print Server

Manual



**Building Networks for People** 

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### **Package Contents**



### **Contents of Package:**

- D-Link DI-704UP Express EtherNetwork <sup>TM</sup> Broadband Router with USB Print Server
- Manual, Warranty and Print Server Software on CD
- Quick Installation Guide
- Power Adapter AC 5V, 2A
- CAT5 Ethernet Cable

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



**WARNING!** Using a power supply with a different voltage rating than the one included with the DI-704UP will cause damage and void the warranty for this product.

### System Requirements for Configuration:

- Computer with Windows, Macintosh, or Linux-based Operating System with an installed Ethernet adapter
- Internet Explorer version 6.x, Netscape Navigator version 6.x and above, or another Internet Browser application with Javascript enabled

## Introduction

Thank you for purchasing the DI-704UP Express EtherNetwork Broadband Router with USB Print Server. The DI-704UP is an Ethernet Broadband Router with a built-in 4-port switch. It also features a USB port to share a USB printer on the home or office network and includes a print server application for Windows. As many as four computers can be connected directly to the router's integrated switch, using its four 10/100Mbps AutoMDIX Ethernet ports. More computers can be added to the network by connecting additional switches to the DI-704UP. The DI-704UP package even includes an Ethernet cable to get you started.

The DI-704UP is ideal if you are creating your first home or small business network, or if you are a more advanced user looking for additional management settings.

The DI-704UP includes a new, easy-to-use D-Link web-based graphical user interface (GUI) to configure the router. To prevent unwanted Internet intruders from accessing your private network, the DI-704UP also serves as a feature-rich firewall.

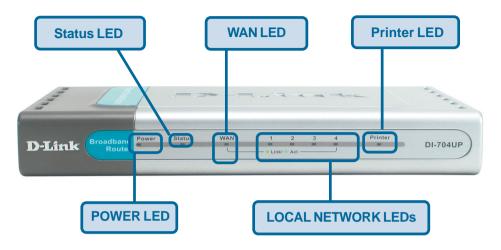
So, whether you are a college student who wants to network with friends and roommates, an executive working at home or in a small office, or a concerned parent who just wants to have more control over how your children access the Internet, then the D-Link DI-704UP Express EtherNetwork Broadband Router with USB Print Server is the networking solution for you.

## **Features & Benefits**

### Firewall Features

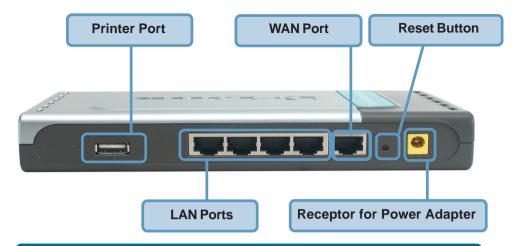
- Filtering Easily applied filtering based on Media Access Control (MAC) Addresses, IP Addresses, Port Addresses, and time schedule allows or denies computer on the network access to the Internet.
- Network Address Translation NAT allows your private network to share a single public IP address. All your computer connected to the DI-704UP will be on a private network shielded from Internet intruders.
- Built-In 4-Port Switch Allows you to quickly and easily share an Internet connection with multiple computers and devices. Each 10/100 Ethernet Port automatically senses and accepts the type of Category (CAT) 5 cable you attach whether straight through or cross-over. Connect additional switches to allow more computer to access the Internet.
- Built-In Print Server Includes a USB port to connect to a USB printer and includes a Windows-based print server software application, so users on the network can share the printer. The print server is also capable of TCP/IP printing.
- Ethernet Cable Included One Ethernet cable is included with the DI-704UP to get you started.
- Simple Setup Wizard for Easy Installation The D-Link setup wizard simplifies the installation process, getting you up and running in just a few clicks.

## **LEDs**



	LED Activity
Power	A solid light indicates a proper connection to the power supply.
Status	Flashes consistently to indicate that the DI-704UP is working properly. A solid light indicates that the unit is not working properly.
WAN	A Solid light indicates connection on the WAN port. This LED blinks during data transmission.
LOCAL NETWORK LEDs (Ports 1-4)	A solid light indicates a connection to an Ethernet-enabled computer on ports 1-4. This LED blinks during data transmission.
Printer	A solid light indicates a proper connection to a printer.

## Connections



**WARNING!** Do not plug anything other than a USB printer into the Printer Port. Doing so may cause damage and void the warranty for this product.

Receptor for Power Adapter	Connect the supplied power adapter that came with the unit. Using the wrong power adapter will damage the unit.
Reset Button	Reset button is to reset the device to its factory default settings.
Printer Port	Connect to the printer using a USB cable. This feature is used to share the printer on the network.
WAN Port	WAN port is the connection point for your DSL or Cable modem.
Lan Ports	LAN port is where you would connect each computer to your network.



#### WARNING!

Using a power supply with a different voltage rating than the one included with the DI-704UP will cause damage and void the warranty for this product.

### Introduction to Broadband Router Technology

A router is a device that forwards data packets from a source to a destination. Routers can work on Open System Interconnection (OSI) layer 3, which forwards data packets using an IP address 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 request sent and the information received by 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 behind 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 such as corporate LANs 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**

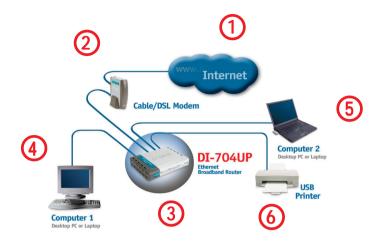
A Local Area Network (LAN) is typically an Ethernet-based network that connects several computers together over a small area such as a building or group of buildings. LAN's can also be connected over large areas. A collection of LANs connected over a large area is called a Wide Area Network (WAN).

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 transfers the data between computers. A NIC is usually a 10/100Mbps Fast Ethernet adapter.

Most networks use hardware devices such as hubs or switches to transfer data between computers. A hub receives 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 port (or corresponding computer) that each packet of data is supposed to be delivered to. A switch minimizes network traffic and speeds up communication over a network.

There are many types of scenarios to consider which could affect the operability of a network. Some of these issues are discussed in the manual under the **Networking Basics** section.

## Sample Scenario



A typical network setup in a home or small office (as shown above) might contain the following devices. For specific information on setting up your network with the DI-704UP please see the **Network Setup** section on the following page.

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-704UP wireless broadband router. (See the Quick Installation Guide included with the DI-704UP.)



If you are connecting a desktop computer that does not already have an available Ethernet port 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 without an available Ethernet port to your network, install an Ethernet Cardbus adapter (e.g., D-Link DFE-690TXD) and its drivers into the laptop computer. (See the Quick Installation Guide included with the DFE-690TXD.)



Connect your USB printer to the USB printer port on the DI-704UP. Please refer to the Quick Installation Guide for loading the Windows print server software if on a Windows-based computer.

## **Network Setup**





### Turn everything off.

**A.** Power OFF your Cable or DSL modem. If your modem does not have an on/off switch, disconnect the power cable.

B. Turn OFF your computer.

C. Do NOT connect the power adapter to your D-Link router.



### Connect the D-Link Router Cables.

**A.** Connect the Ethernet (or networking) cable from the Cable or DSL modem to the WAN port of the router.

**B.** Use the D-Link supplied Ethernet cable to connect the Ethernet port (Network Card) of your computer to one of the LAN ports of the router. The complete setup should look like the image shown above.



### Power up the devices in sequence.

**A.** Power up the Cable or DSL modem. **Wait** until the modem has made the connection to your Internet Service Provider's (ISP's) network.

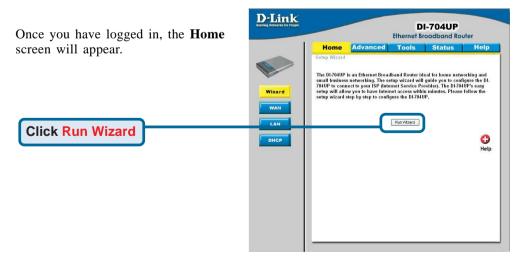
**Note:** Please see the Manual included with your modem for an explanation of the modem's LEDs.

**B.** Power up the D-Link router by connecting the D-Link provided power adapter to the router and to an available power outlet. **C.** Turn on your computer.

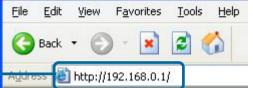
**D.** Now, refer to either the **Quick Installation Guide** or continue to follow this manual to complete the installation process.

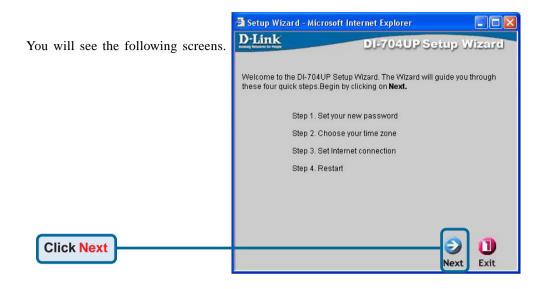
## Using the Setup Wizard

Open your Web browser and type "http://192.168.0.1" into the 2 Back URL address box. Then press the Enter or Return key. http://192.168.0.1/ The logon pop-up screen will appear. ? X Connect to 192.168.0.1 **Type "admin"** for the username and leave the password field blank. DI-704UP 🕵 admin User name: Password: Remember my password Click OK OK Cancel

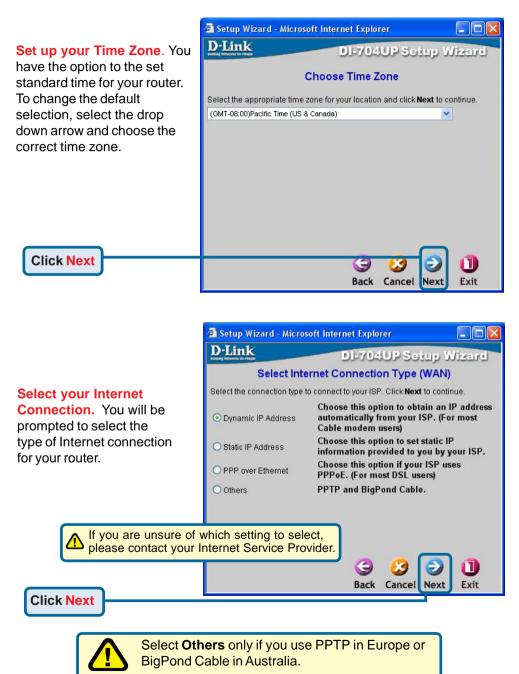


D-Link DI-704UP Web Configuration









If you selected <b>Dynamic IP</b> <b>Address</b> , this screen will appear: (Used mainly for Cable Internet service.)	Setup Wizard - Microsoft Internet Explorer      Di-T04UP Setup Wizard      Set Dynamic IP Address      If your ISP require you to enter a specific host name or specific MAC     address, please enter it in. The Clone MAC Address button is used to     copy the MAC address of your Ethernet adapter to the DI-T04UP. Click
Click the "Clone MAC Address" button to automatically copy the MAC address of the network adapter in your computer. You car also manually type in the MAC address.	Next to continue. Host Name (optional) MAC Address 00 , 40 , 05 , 48 , E3 , 60 Clone MAC Address
networ Media addres and pe	is a MAC address? Each k adapter has a discrete Access Control (MAC) s. Note that some computers pripherals may already b built-in network adapters.

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

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

Click Next

🚰 Setup Wizard - Microsof	t Internet Explorer		
D-Link	DI-704U	PSei	up Wizard
Se	t Static IP Addre	SS	
Enter in the static IP inforr to continue.	nation provided to you	ı 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		
		-	
	( <u>a</u>		ຍ 🕛
	Back C	ancel	Next Exit

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.)

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

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

Click Next

**Click Restart** 

Link	DI-704UP Setup Wizar
	Set PPPoE
The service name is optio <b>Next</b> to continue.	nal but may be required by your ISP. Click
PPPoE Account	
PPPoE Password	
Retype Password	•••••
PPPoE Service Name	(optional)
	Back Cancel Next Exit



## **Using the Configuration Menu**

Whenever you want to configure your network or the DI-704UP, you can access the Configuration Menu by opening the web-browser and typing in the IP Address of the DI-704UP. The DI-704UP default IP Address is shown below:

Open the web browser. Type in the **IP Address** of the DI-704UP.

🗿 D	Link I	DI-704	UP Web C	onfigu	ration
<u>F</u> ile	<u>E</u> dit	<u>V</u> iew	F <u>a</u> vorites	<u>T</u> ools	Help
G	Back	• €	) - 💌	2 (	
A <u>d</u> dre	ss 🙋	http://	192.168.0.1	Î.	

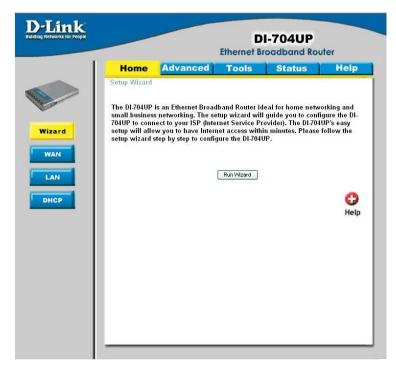
### Home > Wizard

Note: If you have changed the default IP Address assigned to the DI-704UP, 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.

Connect to 19	2.168.0.1
	GK
DI-704UP <u>U</u> ser name: <u>P</u> assword:	admin     Admin     Remember my password
	OK Cancel

### Using the Configuration Menu (continued) Home > Wizard (continued)



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



Clicking Apply will save changes made to the page.

Apply



Clicking Cancel will clear changes made to the page.

Cancel



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

Help



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

### Using the Configuration Menu (continued)

Home > WAN (continued)

	DI-704UP Ethernet Broadband Router
Home Ad	vanced Tools Status Help
WAN Settings Please select the approp	priate option to connect to your ISP.
<ul> <li>Dynamic IP Addres</li> </ul>	s Choose this option to obtain an IP address automatically from your ISP. (For most Cable modem users)
O Static IP Address	Choose this option to set static IP information provided to you by your ISP.
PPPoE	Choose this option if your ISP uses PPPoE. (For most DSL users)
O Others	PPTP and BigPond Cable.
Dynamic IP Address	
Host Name	(Optional)
MAC Address	00 - 40 - 05 - 48 - E3 - 60
Primary DNS Address	0.0.0.0
Secondary DNS Address	s 0.0.0.0
MTU	1500
Auto-reconnect	Enabled ODisabled

WAN is short for Wide Area Network. The WAN settings can be referred to as the Public settings. All IP information in the WAN settings are public IP addresses which are accessible on the Internet. The WAN settings consist of four options: *Dynamic IP Address*, *Static IP Address*, *PPPoE, and Others*. Select the appropriate option and fill in the information needed to connect to your ISP.

Choose **Dynamic IP Address** to obtain IP address information automatically from your ISP. Select this option if your ISP does not give you any IP numbers to use. This option is commonly used for Cable modem services. *Host Name:* The Host Name field is optional but may be required by some ISPs. The host name is the device name of the Broadband Router.

### Using the Configuration Menu (continued)

### Home > WAN (continued)

### MAC Address:

The default MAC address is set to the WAN's physical interface MAC address on the Broadband Router. You can use the "Clone MAC Address" button to copy the MAC address of the Ethernet Card installed by your ISP and replace the WAN MAC address with this MAC address. It is not recommended that you change the default MAC address unless required by your ISP.

### **Primary/Secondary DNS Address:**

Enter a DNS Address if you do not wish to use the one provided by your ISP.

### MTU:

Only enter the MTU if it is required by your ISP. Otherwise, leave it at the default setting of 1500.

#### Auto-reconnect:

If enabled, the Broadband Router will automatically connect to your ISP after your system is restarted or if the connection is dropped.

### Using the Configuration Menu (continued)

### Home > WAN > Static IP Address

Home	Advanced	Too	ols	Status	Hel
WAN Settings Please select the	appropriate option	to connect to	your ISP.		
O Dynamic IP				iin an IP address able modem use	
Static IP Add	iress Cr		tion to set	static IP informatio	
O PPPoE	Ch			ISP uses PPPoE.	(For most DS
O Others		TP and BigP	ond Cable	8	
Static IP Addre	SS				
IP Address	0.1	0.0.0			
Subnet Mask	25	5.255.255.0			
ISP Gateway Add	ress 0.	0.0.0			
Primary DNS Add	Iress 0.1	0.0.0			
Secondary DNS /	Address 0.	0.0.0			
MTU	15	00			

Choose Static IP Address if all WAN IP information is provided to you by your ISP. You will need to enter in the IP Address, subnet mask, gateway address, and DNS address(es) provided to you by your ISP. Each IP address entered in the fields must be in the appropriate IP form, which are four IP octets separated by a dot (x.x.x.x). The Router will not accept the IP Address if it is not in this format.

### **IP Address:**

Public IP address provided by your ISP.

### Subnet Mask:

Subnet mask provided by your ISP.

### **ISP Gateway Address:**

Public IP address of your ISP that you are connecting to.

### **Primary/Secondary DNS Address:**

Enter a DNS Address if you do not wish to use the one provided by your ISP.

### MTU:

Enter an MTU value only if required by your ISP. Otherwise, leave it at the default setting of 1500.

### Using the Configuration Menu (continued) Home > WAN > PPPoE

		Etherne		04UP	uter
Home	Advanced	Tools		tatus	Hel
WAN Settings Please select the	appropriate option to	connect to yo	ur ISP.		
🔿 Dynamic IP		se this optior your ISP. (For			automatically rs)
🔘 Static IP Add	dress Choo				on provided to
PPPoE	Choo users		n if your ISP u	uses PPPoE.	(For most DSI
O Others	PPTF	and BigPond	d Cable.		
PPP over Ethe		ynamic PPPo	E OStatic	PPPoE	
User Name					
Password	••••	•••••			
Retype Passwor	d	•••••			
Service Name			(Op	tional)	
IP Address	0.0.0	0	]		
Primary DNS Add	dress 0.0.0	ō	]		
Secondary DNS /	Address 0.0.0	0	]		
Maximum Idle Tir	me O	Minutes			
MTU	1492				
Auto-reconnect	() F	nabled ODi	sahled		



Please be sure to remove any Client Software program on your computer before you start your configuration of the DI-704UP Router. Choose PPPoE (Point to Point Protocol over Ethernet) if your ISP uses PPPoE connection. Your ISP will provide you with a username and password. This option is typically used for

DSL services. Select Dynamic PPPoE to obtain an IP address automatically for your PPPoE connection. Select Static PPPoE to use a static IP address for your PPPoE connection.

### Using the Configuration Menu (continued) Home > WAN > PPPoE (continued)

### **Dynamic PPPoE:**

PPPoE connection where you will receive an IP address automatically from your ISP.

**Static PPPoE:** PPPoE connection where you have an assigned (static) IP address.

**User Name:** Your PPPoE username provided by your ISP.

**Password:** Your PPPoE password provided by your ISP.

**Retype Password:** Re-enter PPPoE password.

Service Name: Enter the service name provided by your ISP. (optional)

### **IP Address:**

This option is only available for Static PPPoE. Enter in the static IP address for the PPPoE connection.

**Primary DNS Address:** Primary DNS IP provided by your ISP.

Secondary DNS Address: Optional.

Optional.

### **Maximum Idle time:**

The amount of time of inactivity before disconnecting your PPPoE session. Enter a Maximum Idle Time (in minutes) to define a maximum period of time for which the Internet connection is maintained during inactivity. If the connection is inactive for longer than the defined Maximum Idle Time, then the connection will be dropped. Either set this to zero or enable Auto-reconnect to disable this feature.

### MTU:

MTU stands for Maximum Transmission Unit. For PPPoE connections, you may need to change the MTU settings in order to work correctly with your ISP.

#### Auto-reconnect:

If enabled, the Broadband Router will automatically connect to your ISP after your system is restarted or if the connection is dropped.

### Using the Configuration Menu (continued) Home > WAN > PPTP

Home	Advance	d Tools	Status	Hel
WAN Settings Please select the	e appropriate optior	n to connect to you	r ISP.	
🔘 Dynamic IP			to obtain an IP addres nost Cable modem u	
O Static IP Add	dress C	C	to set static IP informa	345 DECEM OF 1997
O PPPoE		hoose this option sers)	if your ISP uses PPPc	E. (For most D
Others	PI	PTP and BigPond	Cable.	
PPTP	(fo	or Europe use only	Ô	
O BigPond	d Cable (fo	or Australia use or	ily)	
РРТР				
My IP Address	0.	.0.0.0		
My Subnet Mask	2	55.255.255.0		
Server IP Addres	s 0.	.0.0.0		
PPTP Account				
PPTP Password	•			
Retype Passwor	rd 🖣			
Connection ID			(Optional)	
Maximum Idle Ti	me 0	Minutes		
Auto-reconnect	6	Enabled ODis	abled	

Dynamic IP Address for PPTP is a WAN connection used in Europe.

### **My IP Address:**

Enter in the IP address for the PPTP connection.

### My Subnet Mask:

Enter the subnet mask information.

### Server IP:

Enter the Server IP address. By default, its set to 192.168.0.1

### Using the Configuration Menu (continued) Home > WAN > PPTP (continued)

### **PPTP** Account:

Enter in the username for the PPTP account.

### **PPTP Password:**

Enter the password for the PPTP account. Retype in Password to confirm.

### **Connection ID:**

(Optional) Enter the Connection ID if required.

### **Maximum Idle Time:**

The amount of time of inactivity before disconnecting your PPTP session. Enter a Maximum Idle Time (in minutes) to define a maximum period of time for which the Internet connection is maintained during inactivity. If the connection is inactive for longer than the defined Maximum Idle Time, then the connection will be dropped. Either set this to zero or enable Auto-reconnect to disable this feature.

#### Auto-reconnect:

If enabled, the device will automatically connect to your ISP after your unit is restarted or when the connection is dropped.

### Using the Configuration Menu (continued) Home > WAN > BigPond Cable

priate option to connect t	o your ISP.	
	ption to obtain an IP addres: (For most Cable modem us	
		tion provided to
Choose this of		E. (For most DS
	Pond Cable.	
(for Europe us)	e only)	
(for Australia u	se only)	
for BigPond		
	(Optional)	
💿 Enabled 🤇	Disabled	
	Choose this of you by your ISF Choose this of users) PPTP and Bigf (for Europe us (for Australia u for BigPond	Choose this option to set static IP informaryou by your ISP. Choose this option if your ISP uses PPPotusers) PPTP and BigPond Cable. (for Europe use only) (for Australia use only) for BigPond

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.

### Auto-reconnect:

If enabled, the device will automatically connect to your ISP after your unit is restarted or when the connection is dropped.

### Using the Configuration Menu (continued) Home > LAN

D-Link Building Networks for People				I-704UP	
	Home	Advanced	Tools	Status	Help
	LAN Settings The IP address of	of the DI-704UP.			
and the second s	IP Address	192.1	168.0.1		
	Subnet Mask	255.3	255.255.0		
Wizard	Domain Name				
WAN				<b>S</b>	🥴 🗘 📔
LAN				Арріу	Cancel Help
DHCP					

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-704UP. 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.

### **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.

#### Local Domain Name:

This field is optional. Enter in the your local domain name.

### Using the Configuration Menu (continued) Home > DHCP

		DI-7 Ethernet Broa	704UP	
Home	Advanced	Tools	Status	Help
DHCP Server The DI-704UP ca	an be setup as a DHCP	Server to distribute IP	addresses to	the LAN network.
DHCP Server	🖲 En	abled 🔘 Disabled		
Starting IP Addre	ess 192.16	8.0.100		
Ending IP Addre	ess 192.16	8.0.199		
Lease Time	1 WEE	к 💌		
Name IP Address 19 MAC Address DHCP Client	92.168.0.		•]	
			<b>S</b> Apply	Cancel Help
Static DHCP C	lients List IP Address	MAC Add	race	
Inditio	II Audiess	MAC AUU	1033	
Dynamic DHCI		MAC Address		Expired Time
HactName				
Host Name M	IP Address 192.168.0.119	00-00-39-A3-5	1 33	Fri Jul 04 00:11:40

DHCP stands for Dynamic Host Control Protocol. The DI-704UP 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-704UP. 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.

### Using the Configuration Menu (continued) Home > DHCP

Static DHCP allows computers on the LAN to receive the same DHCP IP address everytime it boots up. You can bind a specific IP address to a specific computer based on the computer's MAC address.

### **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 IP lease.

### Using the Configuration Menu (continued) Advanced > Virtual Server

		Et	DI-7 hernet Broad	04UP		
Home	Advan	ced 🗾	Fools S	Status	) H	elp
Name Private IP Protocol Type Private Port Public Port Schedule	C Enabled		d 00 V To 00 V to Sun V	<b>S</b>	Cancel	Help
V24 15	1.2.4			тррцу	cancer	neq
Virtual Server Name		Private IP	Protocol	Schedule		
Virtual Server	r FTP	0.0.0.0	TCP 21 / 21	always		
🗌 Virtual Server	r HTTP	0.0.0.0	TCP 80/80	always		1
🗌 Virtual Servei	r HTTPS	0.0.0.0	TCP 443/443	always		
Virtual Server	r DNS	0.0.0.0	UDP 53/53	always		1
Virtual Server	r SMTP	0.0.0.0	TCP 25/25	always		
Virtual Server	r POP3	0.0.0.0	TCP 110/110	always		
Virtual Server		0.0.0.0	TCP 23/23	always		
IPSec		0.0.0.0	TCP 500 / 500	010000000000000000000000000000000000000		
		0.0.0.0	TCP 1723 / 1723	always		
DCS1000		0.0.0.0	Both 80 / 80	always		
		0.0.0.0	Both 8481 / 8481	always		1
DCS1000		0.0.0.0	Both 80 / 80	always		
DCS1000		0.0.0.0				

The DI-704UP 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-704UP firewall feature filters out unrecognized packets to protect your LAN network so all computers networked with the DI-704UP are invisible to the outside world. If public access is desired, you can make some of the LAN computers accessible from the Internet by enabling *Virtual Server*. Depending on the requested service, the DI-704UP redirects the external service request to the appropriate server within the LAN network.

### Using the Configuration Menu (continued) Advanced > Virtual Server

The DI-704UP is also capable of port-redirection meaning incoming traffic to a particular port can be redirected to a different port on the server computer. Each of the virtual services that are created will be listed at the bottom of the screen in the Virtual Servers List. There are already pre-defined virtual services already in the table. You may use them by enabling them and assigning the server IP to use that particular virtual service.

#### Name:

The name referencing the virtual service.

### **Private IP:**

The server computer in the LAN (Local Area Network) that will be providing the virtual services.

### **Private Port:**

The port number of the service used by the Private IP computer.

### **Protocol Type:**

The protocol used for the virtual service.

### **Public Port:**

The port number on the WAN side that will be used to access the virtual service.

### Schedule:

The schedule of time when the virtual service will be enabled. The schedule may be set to Always, which will allow the particular service to always be enabled. If it is set to Time, select the time frame for the service to be enabled. If the system time is outside of the scheduled time, the service will be disabled.

Example #1: If you have a Web server that you wanted Internet users to access at all times, you would need to enable it. Web (HTTP) server is on LAN (Local Area Network) computer 192.168.0.25. HTTP uses port 80, TCP.

Name: Web Server Private IP: 192.168.0.25 Protocol Type: TCP Private Port: 80 Public Port: 80 Schedule: always

### Using the Configuration Menu (continued) Advanced > Virtual Server

Virtual Servers List

	Name	Private IP	Protocol	Schedule	
R	Virtual Server HTTP	192.168.0.25	TCP 80/80	always	211



Click on this icon to edit the virtual service.

Click on this icon to delete the virtual service.

Example #2:

If you have an FTP server that you wanted Internet users to access by WAN port 2100 and only during the weekends, you would need to enable it as such. FTP server is on LAN computer 192.168.0.30. FTP uses port 21, TCP.

Name: FTP Server Private IP: 192.168.0.30 Protocol Type: TCP Private Port: 21 Public Port: 2100 Schedule: From: 01:00AM to 01:00AM, Sat to Sun

• All Internet users who want to access this FTP Server must connect to it from port 2100. This is an example of port redirection and can be useful in cases where there are many of the same servers on the LAN network.

### Using the Configuration Menu (continued) Advanced > Application

	Home	Advanced	Tools	Status	Hel
	Special Application	tion 1 is used to run applic	ations that require	multiple connection	IS.
L		O Enabled O Dis	abled		
	Name				
	Trigger Port	-			
	Trigger Type	TCP V			
	Public Ports				
	Public Ports Public Type	TCP 🖌			
		TCP 💌			0 0
		TCP 💌		3	0 C
		TCP 💌		Mapply C	沒 🕻 Cancel He
	Public Type			Ø Apply C	🔀 🖁
			Public Port		ο 🕄 Cancel He
	Public Type Special Applicat	tion List	Public Port 6112		Sancel He
	Public Type Special Applicat Name	tion List Trigger			185 (1998) D.
	Public Type Special Applicat Name Battle.net	tion List Trigger 8112	6112 51200-512 2000-2038	01,51210	
	Public Type Special Applicat Name Battle.net Dialpad	tion List Trigger 6112 7175	6112 51200-512 2000-2038 2051,2069	01,51210 ,2050-	
	Public Type  Special Applicat Name Battle.net Dialpad ICU II MSN Gaming	tion List Trigger 6112 7175 2019	6112 51200-512 2000-2038 2051,2069 2300-2400	01,51210 ,2050- ,2085,3010-3030	

Some applications require multiple connections, such as Internet gaming, video conferencing, and Internet telephony. These applications have difficulty working through NAT (Network Address Translation). *Special Applications* makes some of these applications work with the DI-704UP. If you need to run applications that require multiple connections, specify the port normally associated with an application in the **Trigger Ports** field, then enter the public ports associated with the trigger port into the **Public Ports** field.

### Using the Configuration Menu (continued) Advanced > Application

At the bottom of the screen, there are 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.

#### **Enable / Disable:**

Select to activate the policy. To disable the virtual server feature, select disable.

### **Trigger Port:**

This is the port used to trigger the application. It can be either a single port or a range of ports.

#### **Trigger Type:**

Select the trigger protocol you would like to initiate. To change the selection, use the drop down arrow and other choices will be listed.

### **Public Ports:**

Enter in the public port or ports to be used. A range of ports can be specified with a hyphen.

### **Public Type:**

Enter in the protocol type for public ports to access. To change the selection, use the drop down arrow and other choices will be listed.

### **Special Application List:**

In the Special Application List, it will list some of the popular services with its trigger 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 (continued) Advanced > IP Filter

•			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I-704UP	
-	lome	Advanced	Tools	roadband R Status	Hel
Filte					
		o allow or deny LAN u:	sers from accessi	ng the Internet.	
		OURL Blocking			
O	MAC Filters	O Domain Blocking			
IP F					
Use	IP Filters to (	deny LAN IP addresse	s access to the Inf	ernet.	
		O Enabled O Dis	ahlad		
IP A	ddress				
10000	Range				
	853				
Prot		TCP 💌			
Sch	edule	Always			
		-	00 💽 : 00 💌 To		
		day	Sun 🚩 to Sun 🎦	-	
				<b>S</b>	- 😢 🧲
				Apply	Cancel He
IP F	ilter List IP Rang	e Protoc	ol 9	chedule	
	*	TCP 2		lways	
	*	TCP 8	) a	Iways	
	*	TCP 4	43 a	Iways	
	*	UDP 5	з а	Iways	
	*	TCP 2	5 a	Iways	
	*	TCP 1	10 a	Iways	
	*	TCP 2		Iways	

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

### Using the Configuration Menu (continued) Advanced > IP Filter

	-		Ethe	DI-70		ter
H	ome	Advan	ced To	ols S	tatus	Help
● IF ○ M IP Fil Use II IP Ad	are used t Filters AC Filters ter P Filters to d dress Range col	o allow or den O URL Blocki O Domain Blo deny LAN IP ac	y LAN users from ng lacking Idresses access d O Disabled	00 V To 00 V		3 🕀
IP Fil	ter List			_		
	IP Rang	e	Protocol TCP 20-21	Schedule always		D T
	*		TCP 80	always		
	*		TCP 443	always		
	*		UDP 53			
	*		TCP 25	always		
	*			always		
			TCP 110	always		

### **Enabled** / **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 Ranges:**

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.

### **Protocol:**

Select the protocol type to block certain IP addresses.

### Schedule:

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

### Using the Configuration Menu (continued) Advanced > MAC Filters

				oadband Rou	
	lome	Advanced	Tools	Status	Help
Filte					
		o allow or deny LAN us	ers from accessin	g the Internet.	
		OURL Blocking			
۲	MAC Filters	🔘 Domain Blocking			
MA	C Filters				
		s to allow or deny comp	outers access to th	ne network.	
۲	Disabled M.	AC Filters			
0	Only allow o	computers with MAC ad	dress listed belov	v to access the netwo	ĸ
0	Only <b>deny</b> c	omputers with MAC ad	dress listed below	to access the networ	k
	Name				
MAG	Address				
DH	ICP Client	select one	<b>~</b>	Clone	
				<b>CA</b> (	2 0
					a 👽
				Apply Ca	ncel Help
MA	C Filter List				
Nan		MAC Addres	35		

MAC (Media Access Control) Filters are used to allow or deny 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-704UP. 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-704UP will fill in the appropriate information to the list.

### Using the Configuration Menu (continued) Advanced > MAC Filters

#### **Disabled MAC Filter:**

Select this option if you do not want to use MAC filters on your Local Area Network (LAN).

## Only allow computers with MAC address listed below to access the network:

Select this option to allow only computers that are in the list access to 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 deny only computers that are in the list access to the network and Internet. All other computers will be allowed access to the network and Internet.

#### Name:

Enter the Name to create a profile for the associated computer(s) on the network.

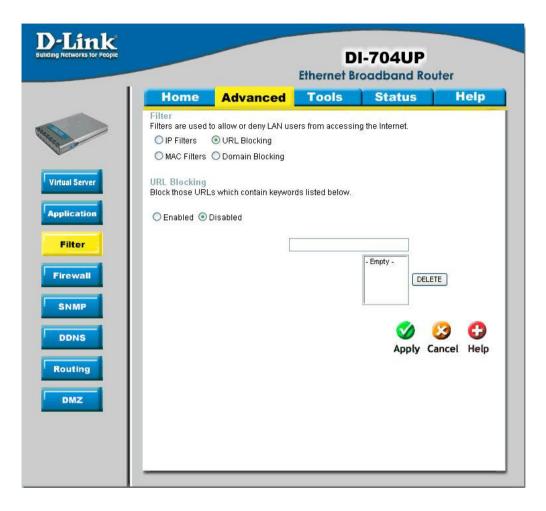
#### **MAC Address:**

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

#### **DHCP Client:**

Select from the DHCP Client list and click the Clone button to automatically clone that computer's MAC address to the MAC address field.

### Using the Configuration Menu (continued) Advanced > URL Blocking



Use URL Blocking filters to disallow computer(s) to access Internet with the following URL keywords entered into the list. The URL Blocking filters are useful features that are similar to parental control. Users can enter keywords that may have adult content, hack, or other materials to prevent computers connected to the Local Area Network (LAN) from accessing those web sites.

### Using the Configuration Menu (continued) Advanced > Domain Filter

ie e			I-704UP	er
Home	Advanced	Tools	Status	Help
O IP Filters	ed to allow or deny LAN us O URL Blocking rs  O Domain Blocking	ers from accessin	ig the Internet.	
Domain Blo O Disable	cking			
~	sers to access all domains ers to access all domains	Second Second		
Permitted D	oomains		- Empty -	
Blocked Do	mains		- Empty -	
				3

Use Domain filters to allow or deny computers access to specific Internet domains whether it is through www, ftp, snmp, etc. Domain filters apply to wired computers connected to one of the four Ethernet LAN ports to the DI-704UP.

### Using the Configuration Menu (continued) Advanced > Domain Filter

#### **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.

#### **Permitted Domains:**

Enter in the domain suffix of the Internet domain you want to use. (Example: shopping.com, sports.net.)

#### **Blocked Domains:**

Enter in the domain suffix of the Internet domain you want to block. (Example: shopping.com, sports.net.)

#### **Delete:**

Select this option to remove the domain suffix from the Permitted Domains or Blocked Domains list.

### Using the Configuration Menu (continued) Advanced > Firewall

Contraction of the second s	Advand	ced Too	ols Statı	ıs H	elp
Firewall Rul	es can be used to al		from passing throug	n the DI-704UP.	
Name	OEnabled O	Disabled			
Action					
Action	O Allow O Del Interface IP St		nd Protoco	) Port Range	
Source	*			in the second	
Destination	* •		TCP		
Schedule	O Always				-
	O From	Time 00 🗸 0	0 🗸 То 00 🖍 00 🔪	•	
		day Sun 💙 to			
			<		0
			40	ply Cancel	Help
			AP	ply cancel	neth
	ulas List				
Firewall R		_			
Action N	ame	Source	Destination	Protocol	DA
Action N	ame Ilow to Ping WAN po	rt WAN,*	LAN,192.168.0.1	ICMP,*	
Action N	ame Ilow to Ping WAN po				

Firewall Rules is an advanced feature used to allow or deny traffic from passing through the Broadband Router. It works in the same way as IP Filters with additional settings. You can create more detailed access rules for the DI-704UP. When virtual services are created and enabled, it will also display in Firewall Rules. Firewall Rules contains all network firewall rules pertaining to IP (Internet Protocol).

In the **Firewall Rules List** at the bottom of the screen, the priorities of the rules are from top (highest priority) to bottom (lowest priority.)

**Note:** The DI-704UP MAC Address filtering rules have precedence over the Firewall Rules.

### Using the Configuration Menu (continued) Advanced > SNMP

SNMP         Use Simple Network Management Protocol(SNMP) for DI-704UP management purposes.         SNMP Local				I-704UP	
Use Simple Network Management Protocol(SNMP) for DI-704UP management purposes.  SNMP Local SNMP Remote C Enabled Disabled Get Community public Set Community IP 1 IP 2 IP 3 IP 4 SNMP Version V1  V2c	Home	Advanced	Tools	Status	Help
SNMP Remote       © Enabled © Disabled         Get Community       public         Set Community       private         IP 1		ork Management Proto	col(SNMP) for DI-	704UP manageme	ent purposes.
Get Community public Set Community private IP 1 IP 2 IP 3 IP 4 SNMP Version O V1 O V2c V1 O V2c	SNMP Local	💿 Enal	bled 🔿 Disabled	Ł	
Set Community         private           IP 1	SNMP Remote	◯ Enal	bled 💿 Disabled	ł	
IP 1 IP 2 IP 3 IP 4 SNMP Version OV1 OV2c	Get Community	public			
IP 2 IP 3 IP 4 SNMP Version OV1 OV2c V1 OV2c	Set Community	private			
IP 3	IP 1				
IP 4	IP 2				
SNMP Version Ov1 Ov2c	IP 3				
Ø 🥴 G	IP 4				
🕥 🥴 G	SNMP Version	OVI C	V2c		
				🏈 Apply	23 G Cancel Hel

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-704UP. The DI-704UP supports SNMP v1.

#### **Enabled or Disabled:**

Click Enabled to enable SNMP. Click Disabled to de-activate SNMP.

#### Local:

SNMP services will be available on the Local (LAN) network.

#### **Remote:**

SNMP services will be available on the remote (WAN) network.

#### Get Community:

"Read only" access for network administration using SNMP. You can view the network, but no configuration is possible with this setting.

#### Set Community:

"Read and Write" access for network administration using SNMP. The administrator can configure the network with this setting.

### Using the Configuration Menu (continued) Advanced > DDNS

D-Link Jing Networks for People				I-704UP	iter
1	Home	Advanced	Tools	Status	Help
	Dynamic DNS Use Dynamic DNS	if you want to use you	r DDNS account.		
1. 00	DDNS	Oisable	d 🔘 Enabled		
	Provider	DynDNS.org	(Dynamic) 🔽		
Virtual Server	Host Name				
	Username / E-mai	[			
Application	Password / Key				
Firewall SNMP				Apply Ca	ancel Help
DDNS					
Routing					
DMZ					

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-704UP.

#### DDNS:

When an IP address is automatically assigned by a DHCP server, DDNS automatically updates the DNS server.

#### **Provider:**

Select your provider from the pull-down menu.

#### Host Name:

Enter the Host name.

#### Username/Email:

Enter the username/email address.

#### Password/Key:

Enter the password/key.

### Using the Configuration Menu (continued) Advanced > Routing

				DI-7040 Broadban		r
F	Home	Advanced	Tools	Stati	IS	Help
Use		Fable for routing purpo		local network.		
ID	Destina	ation Subnet N	lask Gr	ateway	Нор	Enable
1						
2						
3						
4					-	
5						
6						
7						
8						
				Ap	) 🔮 ply Canc	C el He

Static routes can be added if you require specific routes within your internal network. These routes will not apply to the WAN network.

#### **Destination:**

Enter in the IP of the specified network that you want to access using the static route.

#### Subnet Mask:

Enter in the subnet mask to be used for the specified network.

#### Gateway:

Enter in the gateway IP address to the specified network.

#### Hop:

Enter in the amount of hops it will take to reach the specified network.

#### Enable:

Select this option for the specified static route to take effect.

**Hop Count** - in a transmission path, each link is terminated at a network device such as a router or gateway. The number of hops equals the number of routers or gateways that data must pass through before reaching the destination.

### Using the Configuration Menu (continued) Advanced > DMZ



If you have a computer that cannot run Internet applications properly from behind the DI-704UP, then you can allow that computer to have unrestricted Internet access. Enable this feature and 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.

### Using the Configuration Menu (continued) Tools > Admin

Home	Advanced	Tools	Status	H
Administrato Administrators	<b>Settings</b> can change their login pa	ssword.		
Administrator	The Login Name is "admi	n")		
	New Password 🕨		]	
	Reconfirm Password •		]	
User (The Log	in name is "user")			
	New Password 🔹	•••••		
	Reconfirm Password •	•••••	2	
Remote Man Let administrat	agement or perform administration	task from remoti	e host.	
	O Enable	1 💿 Disabled		
	IP Address 0.0.0.0			
	Port 8080 💌			
			<b>S</b>	8
			Apply Ca	ancei

Administrator Settings At this page, the DI-704UP administrator can change the system password. There are two accounts that can access the Broadband Router's Web-Management interface. They are **admin** and **user**. **Admin** has read/write access while **user** has read-only access. User can only view the settings but cannot make any changes.

### Using the Configuration Menu (continued) Tools > Admin

#### **Remote Management:**

Remote Management allows the DI-704UP to be configured from the Internet by a web browser. A username and password is still required to access the Web-Management interface. In general, only a member of your network can browse the built-in web pages to perform "Administrator" tasks. This feature enables you to perform "Administrator" tasks from the remote (Internet) host.

#### **IP Address:**

Internet IP address of the computer that has access to the Broadband Router. It is not recommended that you set the IP address to 0.0.0.0, because this allows any Internet IP address to access the Broadband Router, which could result in a loss of security for your network. If you elect to Enable Remote Management, enter the IP Address of your remote location.

#### Port:

Select the port number used to access the Broadband Router.

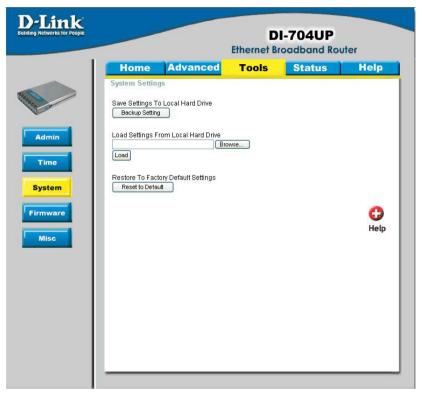
*Example:* http://x.x.x.x8080 whereas x.x.x.x is the WAN IP address of the Broadband Router and 8080 is the port used for the Web-Management interface.

#### Tools > Time

1	-		State Constitution	uter
Home	Advanced	Tools	Status	Help
Time Set the DI-704U	P system time			
	ie : Fri Jul 04 00:05:05 21	003		
📀 Enable NT	P			
Default NT				Optional)
Time Zone	(GMT-08:00)Pa	cific Time (US & Can	ada)	~
0.040	Date and Time			
0				
Year: 2003		Day: 04 💙		
Hour: 00	🖌 Minute: 00 🔽 Sec	ond: 00 🚩		
			<b>A</b>	0 0
				<b>6</b>
			🏈 Apply (	😕 🔂 Cancel Hel
			🍼 Apply (	😥 🔂 Cancel Hel
			Sapply (	<b>છે G</b> Cancel He
			Mapply (	<b>沙  Cancel He</b>
			Mapply (	<b>沙 </b>
			Solution Apply of	3 Cancel He
			Ø Apply (	3 🕄 Cancel He
			Mapply of	3 G
			Ø Apply (	Cancel Hel

The system time is the time used by the DI-704UP for scheduling services. You can manually set the time or connect to a NTP (Network Time Protocol) server. If an NTP server is set, you will only need to set the time zone.

### Using the Configuration Menu (continued) 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-704UP 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 Save 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 Reset to Default to restore the factory default settings.

### Using the Configuration Menu (continued) Tools > Firmware

-Link Ing Networks for People				I-704UP	uter
	Home	Advanced	Tools	Status	Help
Admin Time System Firmware Misc	Click here to che The upgrade pro	ew firmware for your DI-7 exk for an upgrade en ou cocdure takes about 20 . When the upgrade is d <b>Current F</b>	i <mark>r support</mark> site. seconds. Notel Do	on ot power off the unit the unit will be restart n: V1.00 4 2003 Browse	twhen it is

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.

### Using the Configuration Menu (continued) Tools > Misc

D-Link Building Networks for People	DI-704UP Ethernet Broadband Router
	Home Advanced Tools Status Help
	Ping Test Ping Test is used to send "Ping" packets to test if a computer is on the Internet.
	Host Name or IP address Ping
Admin	Restart Device Reboots the DI-704UP.
Time	Reboot
System	Block WAN Ping When you "Block WAN Ping", you are causing the public WAN IP address on the DI-704UP to not respond to ping commands. Pinging public WAN IP addresses is a common method used by hackers to test whether your WAN IP address is valid.
Misc	Discard PING from WAN side 🔘 Enabled 💿 Disabled
19. <u></u> 8	SPI mode You can setup this item if you want to enable SPI mode.
	O Enabled 💿 Disabled
	UPnP Setting You can disable or enable UPnP functions at anytime.
	⊙ Enabled ○ Disabled
	VPN Pass-Through Allows VPN connections to work through the DI-704UP.
	PPTP 💿 Enabled 🔿 Disabled IPSec 💿 Enabled 🔿 Disabled
	Non-standard FTP port You have to setup this item if you want to access an FTP server whose port number is not 21.
	Port:
	🧭 🤔 🛟 Apply Cancel Help

### Using the Configuration Menu (continued) Tools > Misc

#### **Ping Test:**

This diagnostic utility can be used to check if a computer is on the Internet. It sends ping packets and listens for replies from the specific host.

#### **Reboot:**

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-704UP when it is being "ping"ed. This may help to increase security.

#### **SPI Mode:**

Stateful Packet Inspection is a form of firewall protection that will inspect all of the packets transmitted through the DI-704UP. It carefully inspects all incoming packets and if the packets contain suspicious information, it will automatically drop those packets.

#### **UPnP Setting:**

Universal Plug and Play is a feature that is preset to allow certain popular applications such as MSN messenger to be functional using the router without making any configurations. By default, theUPnP Setting is set to enable. It is recommended to keep the UPnP Setting on enable.

#### **VPN Pass Through:**

For users who telecommute or use Virtual Private Network (VPN), you can select PPTP or IPSec to be used with this router.

#### 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.

### Using the Configuration Menu (continued) Status > Device Info

		Ethernet Bro	-704UP	outer
Home	Advanced	Tools	Status	H
Device Informa		Version: V1.00, Fri, J		
LAN	Filliwale	version. v 1.00, FH, J	ui 4 2005	
	MAC Address	00-40-05-48-E3-61		
	IP Address	192.168.0.1		
	Subnet Mask	255.255.255.0		
	DHCP Server	Enabled		
WAN				
	MAC Address	00-40-05-48-E3-60		
	Connection	DHCP Client Discor	DHCP Release	
Re	maining Lease Time	00:00:00		
	IP Address	0.0.0.0		
	Subnet Mask	0.0.0		
	Gateway	0.0.0		
D	omain Name Server	0.0.0.0		
Peripheral				
	Printer	Not ready		
Device Time: Fri	Jul 04 00:08:18 2003			

This page in the Configuration Utility displays the current information for the Broadband Router. It will display the WAN, LAN, and MAC address information. If your WAN connection is set up for **Dynamic IP** address a **Release** button and **Renew** button will be displayed. Use **Release** to disconnect from your ISP and use **Renew** to connect to your ISP. If your WAN connection is set up for **PPPoE**, a **Connect** button and **Disconnect** button will be displayed. Use **Disconnect** to drop the PPPoE connection and use **Connect** to establish the PPPoE connection. This page allows you to observe the DI-704UP's working status:

### Using the Configuration Menu (continued)

#### Status > Device Info

LAN LAN MAC Address: Displays the LAN port MAC/hardware address.

IP Address: LAN/Private IP Address of the DI-704UP.

Subnet Mask: LAN/Private Subnet Mask of the DI-704UP.

WAN WAN MAC Address: Displays the WAN port MAC/hardware address.

IP Address: WAN/Public IP Address.

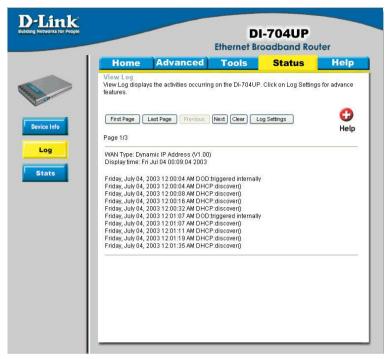
Subnet Mask: WAN/Public Subnet Mask.

Gateway: WAN/Public Gateway IP Address.

Domain Name Server: WAN/Public DNS IP Address.

PeripheralPrinter: Status of the USB print server port.

### Using the Configuration Menu (continued) Status > Log



The Broadband Router keeps a running log of events and activities occurring on the router. If the device is rebooted, the logs are automatically cleared. You may save the log files under **Log Settings**.

#### **First Page:**

The first page of the log.

#### Last Page:

The last page of the log.

#### **Previous:**

Moves back one log page.

#### Next:

Moves forward one log page.

#### **Clear:**

Clears the logs completely.

#### Log Settings:

Brings up the page to configure the logs.

### Using the Configuration Menu (continued) Status > Log Settings

D-Link Building Networks for People			-704UP	ter
	Home Advanced	Tools	Status	Help
Device info	Log Settings Logs can be saved by sending it to an a E-mail Alert Email Address Syslog Syslog Server IP Address 192.1 Log Type V S V D V A	dmin email addres	s or to a syslog server	

#### Log Settings

Displays the logs of activities and events, and can be setup to send these logs to another location.

#### **E-Mail Alert:**

The DI-704UP can be set up to send the log files to a specific email address.

#### **SMTP Server IP:**

Input the SMTP information. Usually, this is provided by your Internet Service Provider (ISP).

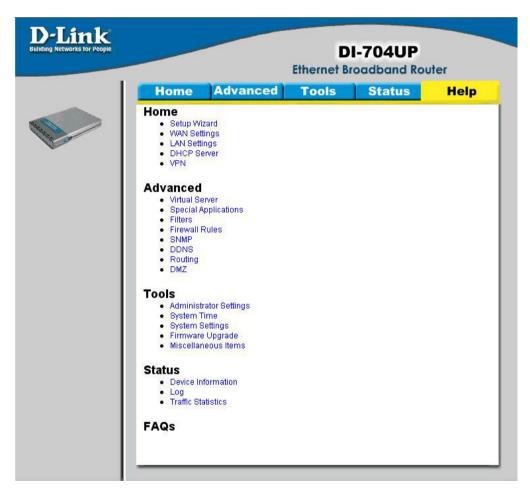
#### Send E-Mail alert to:

Enter in the email address of the recipient who will receive the email log.

#### Send Mail Now:

Click to send mail now.

### Using the Configuration Menu (continued) Help

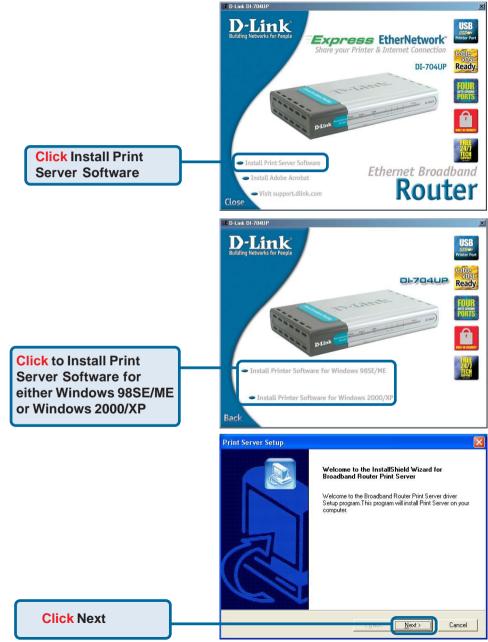


#### Help

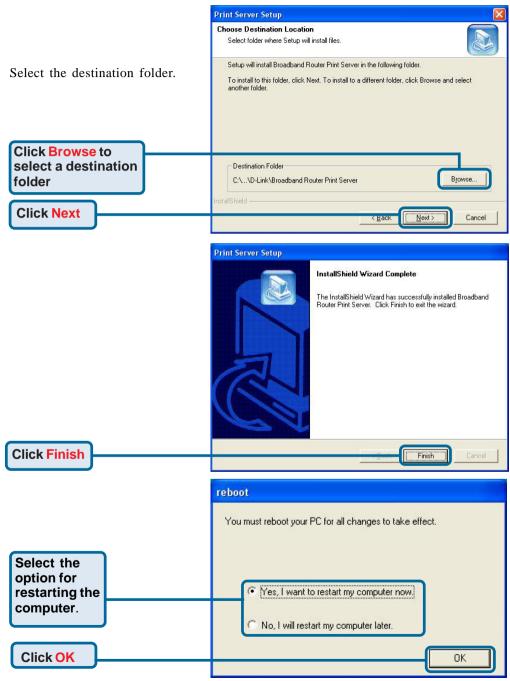
This menu displays the complete **Help** menu. For help at anytime, click on the **Help** tab in the configuration menu.

# **Installing the Print Server Software**

Insert the installation CD-ROM into the CD-ROM drive. The following window will be shown automatically. If it is not, please run "install.exe" on the CD-ROM.



### Installing the Print Server Software (continued)



After rebooting your computer, the software installation procedure is finished. 59

## Installing the Print Server Software (continued) **Configuring on Windows 98SE/ME Platforms**

Edit View Favorites Lools Help

3

Land Pri EPSON Stylus

3

Color Management 🛛 🖓 Main

😟 Layout

File

Address 🕢 Prin

Printers

This folder contains information abo printers that are currently installed, and a victard to help you install new

To get information about a printer that is currently installed, right-click the To install a new printer, click the Add Select an item to view its des

EPSON Stylus C60 Series Properties

EPSON Stylus C60 Series

Details

() Pape

General

3

2 object(s)

100

? X

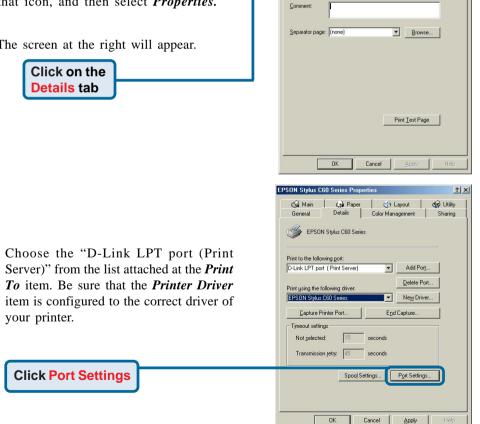
🐨 Utility

▼ @Go

After you finish the software installation procedure, your computer will be capable of network printing provided by the DI-704UP. On a Windows 95/98 platform, open the Printers window in the **My Computer** menu.

Now, you can configure the print server of the DI-704UP: Find the corresponding icon for your printer, for example, the Epson Stylus C60 Series. Right click on that icon, and then select Properties.

The screen at the right will appear.



### Installing the Print Server Software (continued)

### Configuring on Windows XP/2000/NT Platforms

Printer Position

Type in the IP address of the DI-704UP.	Enter the Product's IP: 192.168.0.1 Cancel
	EPSON Stylus C60 Series Properties
Click Port	Color Management Security Version Information
The configuration procedure for a Windo 2000/XP platform is similar to that of W dows 95/98 except the screen of printer <i>Prerties</i> :	in- checked port.
Type in the IP address of the DI-704UP.	OK     Cancel     ∆pply       Printer Position     ×       Enter the Product's IP:     OK       [192.168.0.1     Cancel

(Note: Screen shots are taken in Windows 2000, similar screens will appear in Windows XP.)

×

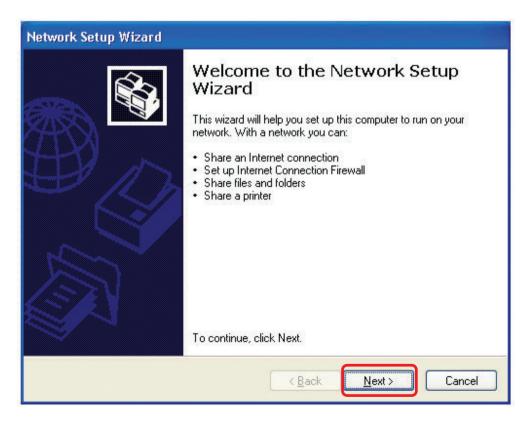
# **Networking Basics**

### 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 98SE.

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



To continue, 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.

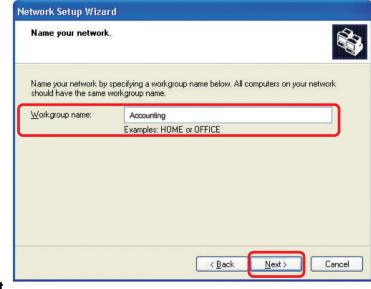


Enter a **Computer description** and a **Computer name** (optional.)

Network Setup Wizard			
Give this computer a	description and name.		
Computer description:	Mary's Computer		
	Examples: Family Room Computer or Monica's Computer		
Computer name:	Office		
The current computer na	Examples: FAMILY or MONICA ne is Office ter names and descriptions.		
	< Back Next > Cancel		

#### Click Next

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



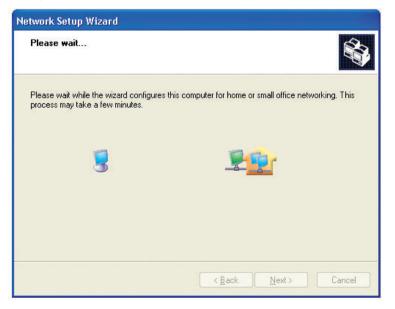
#### Click Next

Please wait while the Network Setup Wizard applies the changes.

Network Setup Wizard				
Ready to apply netw	ork settings			
The wizard will apply the and cannot be interrupte Settings:		: process may ta	ke a few minutes	to complete
Network settings: Computer description: Computer name: Workgroup name: The Shared Documents shared.	Mary's Computer Office Accounting folder and any printers	connected to t	nis computer have	e been
To apply these settings, i	olick Next.			
		< <u>B</u> ack	<u>N</u> ext >	Cancel

When the changes are complete, click Next.

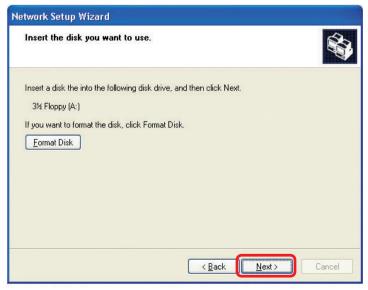
Please wait while the **Network Setup Wizard** configures the computer. This may take a few minutes.



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**.

letwork 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?
Create a Network Setup Disk
O ∐se the Network Setup Disk I already have
O Use my Windows XP CD
O Just finish the wizard; I don't need to run the wizard on other computers
< Back Cancel

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



Format the disk if you wish, and click Next.

Please wait while the Network Setup Wizard copies the files.

21
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.

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>B</u> ack Next> Cancel

To continue, click Next.

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.

System S	Settings Change
?	You must restart your computer before the new settings will take effect. Do you want to restart your computer now?
	Yes No

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 network will be ready to use.

### **Networking Basics (Continued)**

### 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



Select the Computer Name Tab in the System Properties window.

- Enter a Computer Description; this field is optional.
- To rename the computer or join a domain, Click **Change**.

System Re		tomatic Updates	Remote
General	Computer Name	Hardware	Advanced
💕 on th	ne network.	g information to identify	your computer
Computer <u>d</u> esc	ription:		
	For examp Computer''	le: "Kitchen Computer"	or ''Mary's
full computer r	ame: Office		
Vorkgroup:	Accounting		
	work Identification Wi eate a local user acco		Network ID
	computer or join a do		Change

#### Networking Basics (Continued) Naming your Computer

In this window, enter the	Computer Name Changes
Computer name.	You can change the name and the membership of this computer. Changes may affect access to network resources.
Select Workgroup and enter the name of the Workgroup.	Computer name:
	Office
<ul> <li>All computers on your network must have the same Workgroup name.</li> </ul>	Full computer name: Office
	<u>M</u> ore
Click OK.	Member of O Domain:
	⊙ <u>W</u> orkgroup:
	Accounting
	OK Cancel

## Assigning a Static IP Address in Windows XP/2000

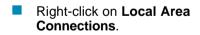
Note: Residential Gateways/Broadband Routers will automatically assign IP Addresses to the computers on the network, using DHCP (Dynamic Host Configuration Protocol) technology. If you are using a DHCP-capable Gateway/Router you will not need to assign Static IP Addresses.

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

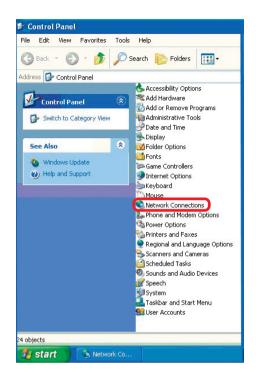


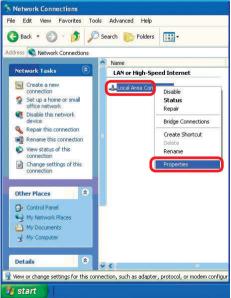
#### Networking Basics (Continued) Assigning a Static IP Address in <u>Windows XP/2000</u>

Double-click on Network Connections.



 Single-click on Properties.





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

- Click on Internet Protocol (TCP/IP).
- Click **Properties**.
- Select Use the following IP address in the Internet Protocol (TCP/IP) Properties window (shown below).

Careford and the	Advanced			
Connect	using:			
🕎 D-	Link Air DWL-520	Wireless PCI Ad	lapter	
			<u>C</u> onfigure.	
This c <u>o</u> n	nection uses the f	ollowing items:		
🗹 🧾	Client for Microsol File and Printer SH QoS Packet Sche	haring for Microso	oft Networks	
<b>X</b> 37	Internet Protocol	(TCP/IP)		
	stall	∐ninstall	P <u>r</u> operties	
Transi wide a		col that provides	rotocol. The default communication	
Show	icon in notificatio	n area when con	nected	

In the window below, select **Use the following IP address**. Input your **IP address and subnet mask**. (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.)

IP address: e.g., 192.168.0.2	Internet Protocol (TCP/IP) Prop	erties ? 🔀	
Subnet mask: 255.255.255.0 Default gateway:	General You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.		
Enter the LAN IP address of the wireless router. (D-Link wireless routers have a LAN IP address of 192.168.0.1)	<ul> <li>Obtain an IP address automatica</li> <li>Use the following IP address:</li> <li>IP address:</li> <li>Subnet mask:</li> <li>Default gateway:</li> </ul>	192.168.0.52 255.255.255.0	
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) Click OK.	Obtain DNS server address auto     Obtain DNS server address auto     Ots the following DNS server ad     Preferred DNS server:     Alternate DNS server:	matically	

You have successfully assigned a Static IP Address.

#### **Networking Basics (Continued)**

### Selecting a Dynamic IP Address with Macintosh OSX

- Go to the Apple Menu and select System **Prefer**ences.
- Double-click on Network.

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

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



	Location: Automatic	*
ow: Built-in Ether	net 🗘	
	Manually	leTalk Proxies
Configure	Manually using DHCP	PROUTER
	Using BootP	Domain Name Servers (Optional)
IP Address	(Provided by DHCP Server)	
Subnet Mask:	255.255.255.0	
Router	192.168.0.1	Search Domains (Optional)
DHCP Client ID:		
Difer client iD.	(Optional)	
Ethernet Address:		Example: apple.com, earthlink.net
Click the lock to	prevent further changes.	Apply Now
Click the lock to		
		Libbit tight
00	Netwo	
ف 📃 ه	Netwo	
ف 📃 ه		rk
ف 📃 ه	Netwo	rk
ف 📃 ه	Netwo Network Startup Disk Location: Automatic	rk c P
w All Displays So	Netwo Network Startup Disk Location: Automatik	rk c P
W All Displays So	Netwo Network Startup Disk Location: Automatik	rk c P
W All Displays So	Netwo Network Startup Disk Location: Automatik TCP/IP PPPOE Ap	c 🔹
w All Displays So how: Built-in Ethe Configure	Netwo Network Startup Disk Location: Automatit TCP/IP PPPOE Ap Using DHCP :: 192.168.0.160	rk c • pleTalk Proxies
W All Displays So now: (Built-in Ethe Configure	Netwo Network Startup Disk Location: Automatia TCP/IP PPPOE Ap :: Using DHCP	rk c • pleTalk Proxies
W All Displays So how: Built-in Ethe Configure IP Address Subnet Mask	Netwo Network Startup Disk Location: Automati TCP/IP PPPOE Ap Using DHCP :: Using DHCP :: 192.1680.160 (Provided by DHCP Server :: 255.255.255.0	rk c • pleTalk Proxies
MAII Displays So how: Built-in Ethe Configure Subnet Mask Route	Netwo Network Startup Disk Location: Automatit TCP/IP PPPOE Ap Using DHCP Using DHCP Using DHCP 192.168.0.160 (Provided by DHCP Server c: 255.255.255.0 T: 192.168.0.1	rk c • • pleTalk Proxies • • Domain Name Servers (Optional)
W All Displays So how: Built-in Ethe Configure IP Address Subnet Mask	Netwo Network Startup Disk Location: Automatit TCP/IP PPPOE Ap Using DHCP Using DHCP Using DHCP 192.168.0.160 (Provided by DHCP Server c: 255.255.255.0 T: 192.168.0.1	rk c • • pleTalk Proxies • • Domain Name Servers (Optional)



#### Networking Basics Checking the Connection by <u>Pinging in Windows XP and 2000</u>

Go to Start > Run > type cmd. A window similar to this one will appear. Type ping xxx.xxx.xxx, where xxx is the IP Address of the Router or Access Point. A good wireless connection will show four replies from the Wireless Router or Access Point, as shown.

📾 F:\WINDOWS\System32\cmd.exe	- 🗆 X
Microsoft Windows XP [Version 5.1.2600] (C) Copyright 1985-2001 Microsoft Corp.	-
F:\Documents and Settings\lab3>ping 192.168.0.50	
Pinging 192.168.0.50 with 32 bytes of data:	
Reply from 192.168.0.50: bytes=32 time<1ms TTL=64 Reply from 192.168.0.50: bytes=32 time<1ms TTL=64 Reply from 192.168.0.50: bytes=32 time<1ms TTL=64 Reply from 192.168.0.50: bytes=32 time<1ms TTL=64 Ping statistics for 192.168.0.50: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli=seconds: Minimum = 0ms, Maximum = 0ms, Average = 0ms	
F:\Documents and Settings\lab3>_	

#### Checking the Connection by Pinging in Windows Me and 98

Go to Start > Run > type command. A window similar to this will appear. Type ping XXX.XXX.XXX.XXX where xxx is the IP Address of the Router or Access Point. A good wireless connection will show four replies from the wireless router or access point, as shown.

 GN F:WUNDOWS\System32\cmd.exe
 Image: System 32\cmd.exe

 Microsoft Windows XP [Uersion 5.1.2600]
 A

 (C) Copyright 1985-2001 Microsoft Corp.
 A

 F:\Documents and Settings\lab3>ping 192.168.0.50
 A

 Pinging 192.168.0.50 with 32 bytes of data:
 A

 Reply from 192.168.0.50: bytes=32 time(1ms TTL=64
 A

 Reply from 192.168.0.50: bytes=32 time(1ms TTL=64
 A

 Reply from 192.168.0.50: bytes=32 time(1ms TTL=64
 A

 Ping statistics for 192.168.0.50:
 Bytes=32 time(1ms TTL=64

 Ping statistics for 192.168.0.50:
 Bytes=32

 Reproximate round trip times in milli=seconds:
 Mininum = 0ms, Maximum = 0ms, Average = 0ms

 F:\Documents and Settings\lab3>\_
 Image: Settings\lab3>\_

-

# Resetting the DI-704UP to the Factory Default Settings

After you have tried other methods for troubleshooting your network, you may choose to **Reset** the DI-704UP to the factory default settings.



To hard-reset the D-Link DI-704UP to the Factory Default Settings, please do the following:

- Locate the **Reset** button on the back of the DI-704UP.
- Use a paper clip to press the **Reset** button and power on.
- Hold for about 5 seconds and then release. (Or release when the status LED flashes.)
- After you have completed the above steps, the DI-704UP will be reset to the factory default settings.

# **Technical Specifications**

#### Standard

IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3 NWay Auto-Negotiation USB 1.1

#### VPN Pass Through

PPTP L2TP IPSec

#### Ports

One WAN Four LAN

#### LEDs

Power WAN Printer Local Network - 10/100

#### **Operating Temperature**

32°F to 131°F (0°C to 55°C)

#### Humidity

95% maximum (non-condensing)

#### Power

External Power Supply AC 5V, 2A

#### Dimensions

L = 7.56 inches (192mm) W = 4.64 inches (118mm) H = 1.22 inches (31mm)

Weight 0.68 lbs (0.31kg)

#### Warranty

One Year

# **Frequently Asked Questions**

#### Why can't I access the web based configuration?

When entering the IP Address of the DI-704UP (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 will 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?

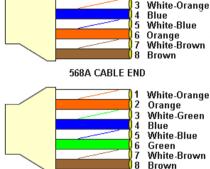
The wiring in crossover and straight-through cables are different. The two types of cable have different purposes for different

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



White-Green

2 Green

568B CABLE END

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 Default Level 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 **Restore Defaults** 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 text field and 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.

P Configuration	
Ethernet Adapter Information	
	PPP Adapter.
Adapter Address IP Address	PPP Adapter. D-Link DFE-550TX 10/100 Adapter 0.0.0.0
Subnet Mask	0.0.0.0
Default Gateway	
	elease Renew new All More Info >>

**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.

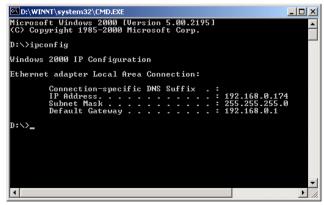
How can I find my IP Address in Windows 2000/XP?

Step 1 Click on Start and select Run.

Step 2 Type cmd then click OK.

Run		? 🔀
	Type the name of a program, fold Internet resource, and Windows	
Open:	cmd	~
	ОК Сап	cel Browse

*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 <u>Step 2</u> 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.

Network and Dial-up Connections
Ele Edit View Favorites Tools Advanced Help
(←Back + ⇒ + 🔄 @Search Parfolders 🧭 🕾 🗙 🗤 🗊+
Address 🔁 Network and Dial-up Connections
Make New Incoming
Connections Connection Connections
Local Area Connection
Type: LAN Connection
Status: Enabled
D-Link DFE-S30TX PCI Fost Ethernet Adapter
Local Area Connection Properties
General
Connect using:
D-Link DFE-530TX PCI Fast Ethernet Adapter
Configure
Components checked are used by this connection:
File and Printer Sharing for Microsoft Networks
Network Monitor Driver
✓ 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 taskbar when connected
OK Cancel

#### 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).

Internet Protocol (TCP/IP) Propert	ies ?X
General	
You can get IP settings assigned autory this capability. Otherwise, you need to the appropriate IP settings.	
C Obtain an IP address automatic	ally
─● Use the following IP address: —	1 []
IP address:	192.168.0.65
Sybnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.0.1
C Obtain DNS server address auto	omatically
Use the following DNS server a	
Preferred DNS server:	192.168.0.1
Alternate DNS server:	4.2.2.2
	Advanced
	OK Cancel

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**.

Network ?	×
Configuration Identification Access Control	
	1
The following network components are installed:	
Client for Microsoft Networks	
D-Link DFE-530TX PCI Fast Ethernet Adapter (Rev A)     TCP/IP	
- Corvin	
Add Remove Properties	
Add Remove Properties	
Primary Network Logon:	
Client for Microsoft Networks	
File and Print Sharing	
Description TCP/IP is the protocol you use to connect to the Internet and	
wide-area networks.	
OK Cancel	1
	_

#### 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.



TCP/IP Properties				? ×
Bindings	Adv	anced	Nel	BIOS
DNS Configuration	Gateway	WINS Confi	guration	IP Address
The first gateway i The address order machines are used	in the list wi	ed Gateway lis Il be the order	t will be th in which t	e default. nese
New gateway:				
192.168.	0.1	Add		
Installed gatewa	ys:			
192.168.0.1		Bemov	/e	
		OK		Cancel

TCP/IP Properties				?×
Bindings		anced		BIOS
DNS Configuration	Gateway	WINS Confi	guration	IP Address
C Djsable DNS				
Enable DNS				
Host: anything		D <u>o</u> main:		
DNS Server Sea	rch Order -			
192.168	. 0 . 1		Add	
192.168.0.1		B	emove	i
Domain Suffix Se	arch Order			
			Add	
		B	elline	
		OK		Cancel

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

#### **Dynamic Cable connection**

(i.e. 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 (empty).

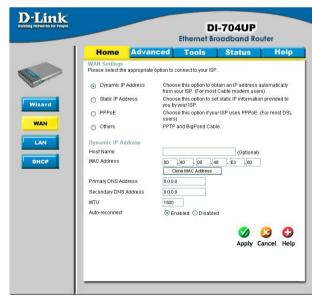


**Step 2** Click the **Home** tab and click the **WAN** button.

By default, Dynamic IP Address is the selected option.

Click Clone Mac Address.

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



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

**Step 3** Power cycle the cable modem and router:

First turn the cable modem off. Next, turn the router off Leave them off for 2 minutes<sup>\*\*</sup>. After 2 minutes<sup>\*\*</sup>, turn the cable modem on. Wait until you get a solid cable light on the cable modem, and then 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 (empty).

**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 Plus 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 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 (empty).

**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 Plus does not allow for anything higher than 1400.

#### Step 4 Click Apply.

**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 ISP 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 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** 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 (empty).

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

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

**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.

DI-704UP Ethernet Broadband Router					
Home	Advan	ced 🗧	Tools :	Status	Help
Name Private IP Protocol Type Private Port Public Port Schedule		d ODisab	led v 00 v To 00 v v to Sun v		<b>3</b>
				Apply	Cancel He
Virtual Server I	.ist			Apply	Cancel He
Name		Private IP	Protocol	Schedule	
Name	FTP	0.0.0.0	TCP 21 / 21	Schedule always	
Name Virtual Server Virtual Server	FTP HTTP	0.0.0.0 0.0.0.0	TCP 21 / 21 TCP 80 / 80	Schedule always always	
Name Virtual Server Virtual Server Virtual Server	FTP HTTP HTTPS	0.0.0.0 0.0.0.0 0.0.0.0	TCP 21 / 21 TCP 80 / 80 TCP 443 / 443	Schedule always always always	
Name Virtual Server Virtual Server Virtual Server Virtual Server	FTP HTTP HTTPS DNS	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53	Schedule always always always always	
Name Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server	FTP HTTP HTTPS DNS SMTP	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21 / 21 TCP 80 / 80 TCP 443 / 443 UDP 53 / 53 TCP 25 / 25	Schedule always always always always always always	
Name Virtual Server	FTP HTTP HTTPS DNS SMTP POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110	Schedule always always always always always always	
Name Virtual Server	FTP HTTP HTTPS DNS SMTP POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23	Schedule always always always always always always always always	
Name Virtual Server	FTP HTTP HTTPS DNS SMTP POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 TCP 500/500	Schedule always always always always always always always always	
Name Virtual Server	FTP HTTP HTTPS DNS SMTP POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23	Schedule always always always always always always always always	
Name Virtual Server	FTP HTTP HTTPS DNS SMTP POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 TCP 500/500 TCP 1723/	Schedule always always always always always always always always always	
Name Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server IPSec PPTP	FTP HTTP HTTPS DNS SMTP POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 TCP 500/500 TCP 1723/ 1723	Schedule always always always always always always always always always always	
Name Virtual Server PiPsec PPTP DCS1000	FTP HTTP HTTPS DNS SMTP POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UCP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 TCP 50/500 TCP 1723/ 1723 Both 80/80 Both 848//	Schedule always always always always always always always always always always	

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 Set 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 one of the web servers to use port 81. Now you can open port 80 to the first 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)

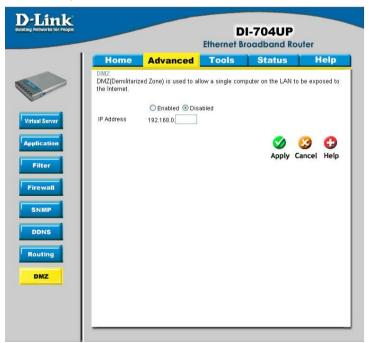
**Step 2** Log into the web based configuration of the router by typing in the IP Address of the router (default:192.168.0.1) in your web browser. The username is **admin** (all lowercase) and the password is blank (empty).

Connect to 192	.168.0.1 🛛 🛛 🔀
	GR
DI-704UP <u>U</u> ser name: <u>P</u> assword:	😰 admin 💌
	Remember my password

**Step 3** Click the **Advanced** tab and then click on the **DMZ** button. Select **Enable** and type in the IP Address from 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-704UP using Firewall rules?

**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 (empty).

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.

	Advance	ed Too	ls Sta	tus	Help
Firewall Rue	s can be used to allo		from passing throu	igh the DI-704	UP.
	OEnabled ODi	sabled			
Name					
Action	O Allow O Deny				
	Interface IP Star	I IPE	nd Proto	ocol Port Ra	inge
Source	· ·				
Destination	• •		TCP	*	ŀ
Schedule	O Always				
	O From	Time 00 💌 0	00 🔽 To 00 🔽 00	~	
		day Sun 💌 to	Sun 💌		
				🔿 🔗	0
				🕥 🕴	el Help
			A	刘 😡 Apply Canc	el Help
Firewall Ru					) 🛟 sel Help
Action Na	me	Source	Destination	Protocol	
Action Na	me w to Ping WAN port	WAN,*	Destination LAN,192.168.0	Protocol ).1 ICMP,*	• 11
Action Na	me w to Ping WAN port		Destination	Protocol	) 🛟 cel Help 🖓 11

**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 (port 1723) 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-704UP router?

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

**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 (empty).

**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**.

Home	Advance	d To	ols	Status		lelp
Virtual Server Virtual Server is u	sed to allow interr	et users ac	cess to LAN se	nices.		
	Enabled	Disabled				
Name	pcanywhere1					
Private IP	192.168.0					
Protocol Type	TCP 💌					
Private Port						
Public Port						
Schedule	Always					
		me 00 💌	00 V To 00	V 00 V		
		ay Sun 💙				
					-	-
					63	0
				<b>S</b> Apply	Cancel	C) Help
Virtual Server	List			🏈 Apply	3 Cancel	C) Help
Name	Priv	ate IP	Protocol	Schedule	3 Cancel	
Name	Priv FTP 0.0	0.0	TCP 21 / 21	Schedule always	3 Cancel	Di
Name Virtual Server Virtual Server	FTP 0.0 HTTP 0.0	0.0 0.0	TCP 21 / 21 TCP 80 / 80	Schedule always always	Cancel	21
Name Virtual Server Virtual Server Virtual Server	Pm FTP 0.0 HTTP 0.0 HTTPS 0.0	0.0 0.0 0.0	TCP 21 / 21 TCP 80 / 80 TCP 443 / 443	Schedule always always always	3 Cancel	
Name Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server	Priv FTP 0.0 HTTP 0.0 HTTPS 0.0 DNS 0.0	0.0 0.0 0.0 0.0	TCP 21 / 21 TCP 80 / 80 TCP 443 / 443 UDP 53 / 53	Schedule always always always always	Cancel	
Name Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server	Pm FTP 0.0 HTTP 0.0 HTTPS 0.0 DNS 0.0 SMTP 0.0	0.0 0.0 0.0 0.0 0.0	TCP 21 / 21 TCP 80 / 80 TCP 443 / 443 UDP 53 / 53 TCP 25 / 25	Schedule always always always always always	Cancel	
Name Virtual Server	Priv         0.0           HTTP         0.0           HTTPS         0.0           DNS         0.0           SMTP         0.0           POP3         0.0	0.0 0.0 0.0 0.0 0.0 0.0	TCP 21 / 21 TCP 80 / 80 TCP 443 / 443 UDP 53 / 53 TCP 25 / 25 TCP 110 / 110	Schedule always always always always always always always	Cancel	
Name Virtual Server	Priv         0.0           HTTP         0.0           HTTPS         0.0           DNS         0.0           SMTP         0.0           POP3         0.0           Teinet         0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23	Schedule always always always always always always always always	Cancel	
Name Virtual Server IPSec	PTP 0.0 HTTP 0.0 HTTPS 0.0 DNS 0.0 SMTP 0.0 POP3 0.0 Teinet 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 TCP 500/500	Schedule always always always always always always always always always	Cancel	
Name Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server IPSec PPTP	Priv           FTP         0.0           HTTP         0.0           HTTPS         0.0           DNS         0.0           SMTP         0.0           POP3         0.0           Teinet         0.0           0.0         0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	TCP 21 / 21 TCP 80 / 80 TCP 443 / 443 UDP 53 / 53 TCP 25 / 25 TCP 110 / 110 TCP 23 / 23 TCP 500 / 500 TCP 1723 / 1723	Schedule always always always always always always always always always always	Cancel	
Name Virtual Server IPSec	PTP 0.0 HTTP 0.0 HTTPS 0.0 DNS 0.0 SMTP 0.0 POP3 0.0 Teinet 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	TCP 21 / 21 TCP 80 / 80 TCP 443 / 443 UDP 53 / 53 TCP 25 / 25 TCP 110 / 110 TCP 23 / 23 TCP 500 / 500 TCP 1723 / 1723 Both 80 / 80	Schedule always always always always always always always always always	Cancel	
Name Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server IPSec PPTP	Priv           FTP         0.0           HTTP         0.0           HTTPS         0.0           DNS         0.0           SMTP         0.0           POP3         0.0           Teinet         0.0           0.0         0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	TCP 21 / 21 TCP 80 / 80 TCP 443 / 443 UDP 53 / 53 TCP 25 / 25 TCP 110 / 110 TCP 23 / 23 TCP 500 / 500 TCP 1723 / 1723	Schedule always always always always always always always always always always	Cancel	
Name Virtual Server PiPSec PPTP DCS1000	Prix           FTP         0.0           HTTP         0.0           DNS         0.0           DNS         0.0           SMTP         0.0           POP3         0.0           Teinet         0.0           0.0         0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 TCP 500/500 TCP 1723/ 1723 Both 80/80 Both 8481/	Schedule always always always always always always always always always always always	Cancel	

How do I use *PC Anywhere* with my DI-704UP router? (continued)

6 Create a second entry as shown.	D-Link Building Networks for People		Et	DI-7 hernet Broad	04UP dband Rout	ler
		Home Adva Virtual Server Virtual Server is used to allow	Internet users	access to LAN ser	Status	Help
	Virtual Server	Name pcanywh Private IP 192.168.0 Protocol Type TCP V		ed		
	Filter	Private Port Public Port Schedule From C From	Time 00	✓ 00 ✓ To 00	· 00 •	
	DDNS		day Sun	💙 to Sun 💙	🧭 🔮 Apply Car	3 🛟 ncel Help
		Virtual Server List Name	Private IP	Protocol	Schedule	
7 Click Apply and then click	Routing	Virtual Server FTP	0.0.0.0	TCP 21 / 21	always	211
		Virtual Server HTTP	0.0.0.0	TCP 80/80	always	🕑 🖬
ntinue.	DMZ	Virtual Server HTTPS	0.0.0.0	TCP 4437443	always	🖻 🗊
linue.		Virtual Server DNS	0.0.0.0	UDP 53/53	always	1
		Virtual Server SMTP	0.0.0.0	TCP 25/25	always	
		Virtual Server POP3	0.0.0.0		always	
		Virtual Server Teinet	0.0.0.0	TCP 23/23	always	
		IPSec	0.0.0.0	TCP 500 / 500 TCP 1723 /	atways	
		PPTP	0.0.0.0	1723	always	
		DCS1000	0.0.0.0	Both 80 / 80 Both 8481 /	always	
		DCS1000	0.0.0.0	Both 8481 / 8481	always	1
		DCS2000	0.0.0.0	Both 80 / 80	always	🕑 🗊
		DCS2000	0.0.0.0	Both 5001- 5003 / 5001- 5003	always	21

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

		Ef	DI-7	O4UP	uter
Home	Adva	nced	Tools	Status	Help
Virtual Server Is Name Private IP Protocol Type Private Port Public Port Schedule		ere3 0. 	ed • 00 v To 00 v v to Sun v		0 0
				Apply (	Cancel Hel
Virtual Server	List				Cancel Hel
Name		Private IP	Protocol	Schedule	
Name	ar FTP	0.0.0	TCP 21 / 21	Schedule always	
Name Virtual Serv Virtual Serv	er FTP er HTTP	0.0.0.0	TCP 21 / 21 TCP 80 / 80	Schedule always always	
Name Virtual Servi Virtual Servi Virtual Servi	er FTP er HTTP er HTTPS	0.0.0.0 0.0.0.0 0.0.0.0	TCP 21 / 21 TCP 80 / 80 TCP 443 / 443	Schedule always always always	
Name Virtual Servi Virtual Servi Virtual Servi Virtual Servi Virtual Servi	er FTP Er HTTP er HTTPS er DNS	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21 / 21 TCP 80 / 80 TCP 443 / 443 UDP 53 / 53	Schedule always always always always	
Name Virtual Servi Virtual Servi Virtual Servi	er FTP er HTTP er HTTPS er DNS er SMTP	0.0.0.0 0.0.0.0 0.0.0.0	TCP 21 / 21 TCP 80 / 80 TCP 443 / 443	Schedule always always always always always always	
Name Virtual Servi Virtual Servi Virtual Servi Virtual Servi Virtual Servi	er FTP er HTTP er HTTPS er DNS er SMTP er POP3	0.0.0.0 0.0.0 0.0.0 0.0.0 0.0.0	TCP 21 / 21 TCP 80 / 80 TCP 443 / 443 UDP 53 / 53 TCP 25 / 25	Schedule always always always always always always	
Name Virtual Servi	er FTP er HTTP er HTTPS er DNS er SMTP er POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110	Schedule always always always always always always always	
Name Virtual Servi Virtual Servi Virtual Servi Virtual Servi Virtual Servi Virtual Servi Virtual Servi	er FTP er HTTP er HTTPS er DNS er SMTP er POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21 / 21 TCP 80 / 80 TCP 443 / 443 UDP 53 / 53 TCP 25 / 25 TCP 110 / 110 TCP 23 / 23	Schedule always always always always always always always	
Name Virtual Servi Virtual Servi Virtual Servi Virtual Servi Virtual Servi Virtual Servi Virtual Servi IPSec	er FTP er HTTP er HTTPS er DNS er SMTP er POP3	0000 0000 0000 0000 0000 0000 0000 0000	TCP 21 / 21 TCP 80 / 80 TCP 443 / 443 UDP 53 / 53 TCP 25 / 25 TCP 110 / 110 TCP 23 / 23 TCP 500 / 500 TCP 1723 /	Schedule always always always always always always always always	
Name Virtual Serm IPSec PPTP	er FTP er HTTP er HTTPS er DNS er SMTP er POP3	0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 TCP 500/500 TCP 1723/ 1723	Schedule always always always always always always always always always always	
Name Virtual Serm IPSec PPTP DCS1000	er FTP er HTTP er HTTPS er DNS er SMTP er POP3	0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0	TCP 21 / 21 TCP 80 / 80 TCP 443 / 443 UOP 53 / 53 TCP 25 / 25 TCP 110 / 110 TCP 26 / 25 TCP 110 / 110 TCP 50 / 500 TCP 1723 / 1723 Both 8/ 80 / 80 Both 8481 /	Schedule always always always always always always always always always always	

**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.

#### 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** 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 (empty).

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

	Advance	-		s Help
wall Rules ca		/ or denv traffic fro		
			m passing through 1	the DI-704UP.
me e	Enabled ODis	abled		
	A CONTRACT OF A CONTRACT OF	IP End	Protocol	Port Range
-			1101000	Torrange
		0.100	TCP 🛩	4661 - 4665
nedule	Always			
	Contraction of the second	ime 00 🔽 00 🛉	- To 00 - 00 -	
			<	0 0
			App	ly Cancel Help
				iy cancer new
		Pouros	Dectination P	rotocol
		WAN,*		
Deny Defau	tt	···	LAN,- +	. 🖻 🕅
			192.168.0.1	
	In Jurce W stination L nedule ewall Rules Action Name Allow Allow t	Interface IP Start urce WAN Y Istarts stimation LAN V 192168 Medule Always O From T d sewall Rules List	Interface IP Start IP End stimation LAN V 192168.0100 edule Always From Time 00 V 00 V day Sun V to Su eswall Rules List Action Name Source Allow Allow to Ping WAN port WAN,*	Altow O Cony Interface IP Start IP End Protocol arce WAN I IS2:660.100 TCP  day Sun to Sun to Sun Action Name Source Destination P Altow Allow to Ping WAN port WAN,* LAN,192:1680.11

box empty. Under Protocol, select \*. In the port range boxes, enter **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 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 the firmware.

**Step 2** 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 (empty).

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** 

		E	DI-7	O4UP	uter
Home	Adva	nced 🗧	Tools	Status	Help
Virtual Server Virtual Server is Name Private IP Protocol Type Private Port Public Port Schedule	used to allow	vs	ed		3 Gancel Hel
Virtual Server	List				10 2002 AU
Name		Private IP	Protocol	Schedule	
		Private IP 0.0.0.0	Protocol TCP 21 / 21	Schedule always	
Name Virtual Serve	er FTP er HTTP	0.0.0.0	TCP 21 / 21 TCP 80 / 80	always always	
Name	er FTP er HTTP	0.0.0.0	TCP 21 / 21	always always	
Name Virtual Serve	er FTP er HTTP er HTTPS	0.0.0.0	TCP 21 / 21 TCP 80 / 80	always always	
Name Virtual Serve Virtual Serve Virtual Serve	ar FTP ar HTTP ar HTTPS ar DNS	0.0.0.0 0.0.0.0 0.0.0.0	TCP 21 / 21 TCP 80 / 80 TCP 443 / 443	always always always	
Name Virtual Serve Virtual Serve Virtual Serve Virtual Serve Virtual Serve	er FTP er HTTP er HTTPS er DNS er SMTP	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53	always always always always always	
Name Virtual Serve Virtual Serve Virtual Serve Virtual Serve Virtual Serve	er FTP er HTTP er HTTPS er DNS er SMTP er POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21 / 21 TCP 80 / 80 TCP 443 / 443 UDP 53 / 53 TCP 25 / 25	always always always always always	
Name Virtual Serve	er FTP er HTTP er HTTPS er DNS er SMTP er POP3	0.0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 TCP 500/500	always always always always always always	
Name Virtual Serve	er FTP er HTTP er HTTPS er DNS er SMTP er POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23	always always always always always always always	
Name Virtual Serve IPSec	er FTP er HTTP er HTTPS er DNS er SMTP er POP3	0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 TCP 500/500 TCP 1723/	ahways ahways ahways ahways ahways ahways ahways ahways	
Name Virtual Serve IPSec PPTP	er FTP er HTTP er HTTPS er DNS er SMTP er POP3	0.0.00 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21 / 21 TCP 80 / 80 TCP 443 / 443 UDP 53 / 53 TCP 25 / 25 TCP 110 / 110 TCP 23 / 23 TCP 500 / 500 TCP 1723 / 1723	ahways ahways ahways ahways ahways ahways ahways ahways ahways	
Name Virtual Serve PPTP DCS1000	er FTP er HTTP er HTTPS er DNS er SMTP er POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UOP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 TCP 500/500 TCP 1723/ 1723 Both 80/80 Both 9481/	ahways ahways ahways ahways ahways ahways ahways ahways ahways	

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** 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 (empty).

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.

Click Apply and then Continue

Step 5 Click Enabled and enter settings:

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.

		E	Ethernet Broad	dband R	outer	
Home	Advan	ced	Tools	Status	) F	lelj
Virtual Server is Name Private IP Protocol Type Private Port Public Port Schedule		d ODisat	rs access to LAN ser			
				<b>S</b>	83	C
Virtual Server	List			<b>S</b> Apply	3 Cancel	Hel
Virtual Server Name	List	Private IP	Protocol	Apply Schedule	3 Cancel	Hel
		Private IP 0.0.0.0	Protocol TCP 21/21		3 Cancel	
Name	r FTP			Schedule	Cancel	
Name	r FTP r HTTP	0.0.0.0	TCP 21 / 21	Schedule always always	Cancel	
Name Virtual Serve Virtual Serve	rr FTP rr HTTP rr HTTPS	0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80	Schedule always always	Cancel	
Name Virtual Serve Virtual Serve Virtual Serve Virtual Serve Virtual Serve Virtual Serve	rr FTP rr HTTP rr HTTPS rr DNS rr SMTP	0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443	Schedule always always always	Cancel	
Name Virtual Serve Virtual Serve Virtual Serve Virtual Serve Virtual Serve	rr FTP rr HTTP rr HTTPS rr DNS rr SMTP	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53	Schedule always always always always always always	Cancel	
Name Virtual Serve Virtual Serve Virtual Serve Virtual Serve Virtual Serve Virtual Serve	rr FTP rr HTTP rr HTTPS rr DNS rr SMTP rr SMTP	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25	Schedule always always always always always always	Cancel	
Name Virtual Serve	rr FTP rr HTTP rr HTTPS rr DNS rr SMTP rr SMTP	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 TCP 500/500	Schedule always always always always always always always always	Cancel	
Name Virtual Serve	rr FTP rr HTTP rr HTTPS rr DNS rr SMTP rr SMTP	0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23	Schedule always always always always always always always always	Cancel	
Name Virtual Serve	rr FTP rr HTTP rr HTTPS rr DNS rr SMTP rr SMTP	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 TCP 500/500 TCP 1723/	Schedule always always always always always always always always always	Cancel	
Name Virtual Serve Virtual Serve Virtual Serve Virtual Serve Virtual Serve Virtual Serve IPSec PPTP	rr FTP rr HTTP rr HTTPS rr DNS rr SMTP rr SMTP	0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 TCP 500/500 TCP 1723/ 1723	Schedule always always always always always always always always always	Cancel	
Name Virtual Serve Virtual Serve Virtual Serve Virtual Serve Virtual Serve Virtual Serve Virtual Serve PPTP DCS1000	rr FTP rr HTTP rr HTTPS rr DNS rr SMTP rr SMTP		TCP 21/21 TCP 80/80 TCP 443/443 UCP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 TCP 500/500 TCP 1723 800h 80/80 Both 8481/	Schedule always always always always always always always always always always	Cancel	

#### D-Link

Home	Advan	ced 📄	Tools	Status	) H	leip
Virtual Server Virtual Server is u	ised to allow In	nternet users	access to LAN ser	vices.		
Name	Enabled gamespy2	d 🔿 Disabl	ed			
Private IP	192.168.0	100				
Protocol Type	Both M					
Private Port	6500					
Public Port	6500					
Schedule	Always	_				
011100010	O From		✓ 00 ✓ To 00 ·			
	O Hom		✓ to Sun ✓			
		00)			0	-
				<b>v</b>	2	-
				Apply	Cancel	Help
Virtual Server	List					
Virtual Server I Name	List	Private IP	Protocol	Schedule		
		Private IP 0.0.0.0	Protocol TCP 21 / 21	Schedule always		BI
Name	FTP					BI
Name	FTP HTTP	0.0.0.0	TCP 21 / 21	always always		
Name Virtual Server Virtual Server	FTP HTTP HTTPS	0.0.0.0	TCP 21 / 21 TCP 88 / 80	always always		
Name Virtual Server Virtual Server Virtual Server	FTP HTTP HTTPS DNS	0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443	always always always	00 00000	
Name Virtual Server Virtual Server Virtual Server Virtual Server	FTP HTTP HTTPS DNS SMTP	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53	always always always always always		
Name Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server	FTP HTTP HTTPS DNS SMTP POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25	always always always always always		
Name Virtual Server	FTP HTTP HTTPS DNS SMTP POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110	always always always always always always always		
Name Virtual Server	FTP HTTP HTTPS DNS SMTP POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23	always always always always always always always		
Name Virtual Server IPSec	FTP HTTP HTTPS DNS SMTP POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 TCP 500/500 TCP 1723/	always always always always always always always always		
Name Virtual Server IPSec PPTP	FTP HTTP HTTPS DNS SMTP POP3	000.0 00.0 00.0 00.0 00.0 00.0 00.0 00	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 TCP 500/500 TCP 1723/ 1723	always always always always always always always always always		
Name Virtual Server PSec PPTP DCS1000	FTP HTTP HTTPS DNS SMTP POP3	00000 00000 0000 0000 0000 0000 0000 0000	TCP 21/21 TCP 80/80 TCP 443/443 UCP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 TCP 500/500 TCP 1723/ 1723 Both 80/80 Both 848//	always always always always always always always always always		

DI-704UP

#### 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** 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 (empty).

Step 2 Click on Advanced and then click Virtual Server.

Step 3 Click Enabled and then enter a Name (kazaa for example).

**Step 4** Enter the IP Address of the computer you are running KaZaA from in the Private IP box. Select TCP for the Protocol Type.

**Step 5** Enter 1214 in the Private and Public Port boxes. Click **Always** under schedule or set a time range. Click **Apply**.

		E	thernet Broad	O4UP	
Home	Advan	ced 📃	Tools S	Status	Help
Name Private IP Protocol Type Private Port Public Port Schedule	<ul> <li>Enabled</li> <li>kazaa</li> <li>192.168.0</li> <li>TCP </li> <li>6500</li> <li>6500</li> <li>6500</li> <li>Aways</li> <li>From</li> </ul>	Time 00	ed v 00 v To 00 v v to Sun v	× 00 ¥	Ø 6
				Analy	Cancel Helr
10.0.10	110			Apply	Cancel Help
Virtual Server	List	Private IP	Protocol		Cancel Help
		Private IP 0.0.0.0	Protocol TCP 21/21	Apply Schedule always	Cancel Help
Name	r FTP			Schedule	
Name	r FTP r HTTP	0.0.0.0	TCP 21 / 21	Schedule always always	Di
Name Virtual Serve	r FTP r HTTP r HTTPS	0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80	Schedule always always	21
Name Virtual Serve Virtual Serve Virtual Serve	rr FTP rr HTTP rr HTTPS rr DNS	0.0.0.0 0.0.0.0 0.0.0.0	TCP 21 / 21 TCP 80 / 80 TCP 443 / 443	Schedule always always always	21
Name Virtual Serve Virtual Serve Virtual Serve	r FTP r HTTP r HTTPS r DNS r SMTP	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53	Schedule always always always always always	
Name Virtual Serve Virtual Serve Virtual Serve Virtual Serve Virtual Serve Virtual Serve	rr FTP rr HTTP rr HTTPS rr DNS rr SMTP rr POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21 / 21 TCP 80 / 80 TCP 443 / 443 UDP 53 / 53 TCP 25 / 25	Schedule always always always always always	
Name Virtual Serve	rr FTP rr HTTP rr HTTPS rr DNS rr SMTP rr POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110	Schedule always always always always always always always always	
Name Virtual Serve	rr FTP rr HTTP rr HTTPS rr DNS rr SMTP rr POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23	Schedule always always always always always always always always	
Name Virtual Serve IPSec	rr FTP rr HTTP rr HTTPS rr DNS rr SMTP rr POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 TCP 500/500 TCP 1723/	Schedule always always always always always always always always always	
Name Virtual Serve IPSec PPTP	rr FTP rr HTTP rr HTTPS rr DNS rr SMTP rr POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 TCP 500/500 TCP 1723/ 1723	Schedule always always always always always always always always always always	
Name Virtual Serve Pirtual Serve DiPSec PPTP DCS1000	rr FTP rr HTTP rr HTTPS rr DNS rr SMTP rr POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 TCP 500/500 TCP 1723/ 1723 Both 80/80 Both 848//	Schedule always always always always always always always always always always always always	

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

#### How do I configure my router to play Warcraft 3?

To host a Warcraft 3 game, you must open ports on your router to allow incoming traffic. To play a game, you do not have to configure your router.

**D**-Link

Warcraft 3 (Battlenet) uses port 6112.

#### For the DI-704UP:

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 (empty).

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

#### Ethernet Broadband Router Tools Status Help Home Advanced Virtual Server Virtual Server is used to allow Internet users access to LAN services Enabled ODisabled Name warcraft3 Virtual Server Private IP 192,168,0 100 Protocol Type both V Application Private Port 6112 Public Port 6112 Schedule Always O From Time 00 ♥ 00 ♥ To 00 ♥ 00 ♥ Firewall day Sun 💌 to Sun 💌 SNMP - 63 C Apply Cancel Help DDNS Virtual Server List Name Private IP Protocol Schedule Routing Virtual Server FTP TCP 21/21 20 0000 always Virtual Server HTTP 0.0.0.0 TCP 80 / 80 always 21 DMZ Virtual Server HTTPS 0.0.0.0 TCP 443/443 always UDP 53/53 always 21 Virtual Server DNS 0.0.0.0 1 Virtual Server SMTP 0.0.0.0 TCP 25/25 always Virtual Server POP3 0000 TCP 110 / 110 always 121 Virtual Server Telnet 0.0.0.0 TCP 23/23 always 20 IPSec 0000 TCP 500 / 500 always 1 TCP 1723 / always 1723 PPTP 0.0.0.0 DCS1000 0.0.0.0 Both 80 / 80 always Both 8481 /

0000

0.0.0.0

0000

8481

5003

DC81000

DCS2000

DC82000

DI-704UP

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.

20

always

Both 80 / 80 always Both 5001-5003 / 5001- always

#### How does NetMeeting work 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.

In order to use NetMeeting with your D-LInk router, you need 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** 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 (empty).

#### 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).

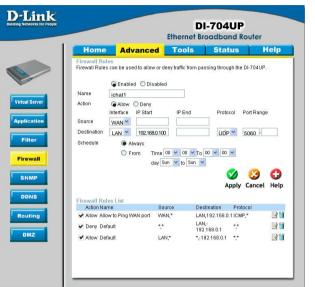
Click Allow.

Next to Source, select **WAN** under interface.

In the first box, enter an \*. Leave the second box empty.

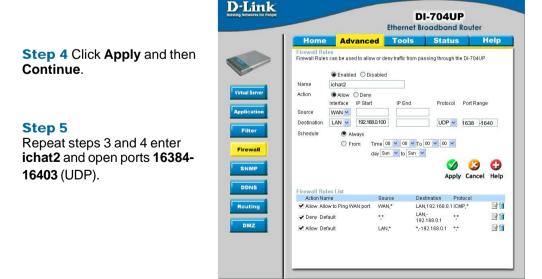
Next to Destination, select **LAN** under interface.

Enter the IP Address of the computer you are running iChat from.



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.



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

D

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.

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Home	Advan	ced	Tools	Status	) H	lel
Virtual Server Virtual Server is		nternet user d ODisabl	s access to LAN se led	Nices.		
Name	ichat3					
Private IP	192.168.0.	100				
Protocol Type	TCP 💌					
Private Port	6500					
Public Port	6500	-				
Schedule	Always					
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Virtual Server	Liet			Apply	Cancel	Hel
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Name Virtual Serve IPSec PPTP	r FTP r HTTP r HTTPS r DNS r SMTP r POP3	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	TCP 21/21 TCP 80/80 TCP 443/443 UDP 53/53 TCP 25/25 TCP 110/110 TCP 23/23 TCP 500/500	Schedule always always always always always always always always always always always	Cancel	
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Step 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.

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. 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, NAT 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-704UP) 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>

### **Technical Support**

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

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

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

#### Tech Support for customers within the United States:

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

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

#### Tech Support for customers within Canada:

#### D-Link Technical Support over the Telephone:

(800) 361-5265 Monday to Friday 7:30am to 12:00am EST

#### D-Link Technical Support over the Internet:

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

## Warranty (USA only)

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 upon return to D-Link of the defective Hardware. All Hardware (or part thereof) that is replaced by D-Link, or for which the purchase price is refunded, shall become the property of D-Link upon refured.

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. 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.
- Return Merchandise Ship-To Address
   USA: 17595 Mt. Herrmann, Fountain Valley, CA 92708
   Canada: 2180 Winston Park Drive, Oakville, ON, L6H 5W1 (Visit <u>http://www.dlink.ca</u> for detailed warranty information within Canada)

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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**Governing Law**: This Limited Warranty shall be governed by the laws of the State of California. Some states do not allow exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the foregoing limitations and exclusions may not apply. This limited warranty provides specific legal rights and the product owner may also have other rights which vary from state to state.

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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.

### For detailed warranty outside the United States, please contact corresponding local D-Link office.

# Registration

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