

# D-Link Quick Installation Guide

This product can be set up using any current web browser, i.e., Internet Explorer 6x.

D-Link DFL-1500  
VPN/Firewall  
Router



## Before You Begin

It's best to use a computer with an Ethernet adapter for configuring the DFL-1500. The default IP address for the DFL-1500 is **192.168.1.254** (LAN1 at the port number 4) with a Subnet Mask of **255.255.255.0**. You will need to assign your computer a Static IP address within the same range as the DFL-1500's IP address, say 192.168.1.2 to configure the DFL-1500. **See the Appendix if you need assistance in assigning a Static IP address for your network adapter.**

## Check Your Package Contents

These are the items included with your DFL-1500 V.A1 purchase:



- DFL-1500 VPN/Firewall Router



- CD-ROM (containing User's manual and Quick Guide)



- Console Cable (baud rate 9600)



- Ethernet Cable (RJ45)



- Power Cord

ENGLISH

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

©2003 D-Link Systems, Inc. All rights reserved. Trademarks or registered trademarks are the property of their respective holders. Software and specifications are subject to change without notice. DFL-1500 VA1.08062002

## Device default value

You should have an Internet account already set up and have been given most of the following information as the following table. Fill out this table when you edit the web configuration of DFL-1500.

Items		Default value	New value
Password:		admin	
WAN1 (Port 1)	Fixed IP	IP Address	____.____.____.____
		Subnet Mask	____.____.____.____
		Gateway IP	____.____.____.____
		Primary DNS	____.____.____.____
		Secondary DNS	____.____.____.____
	PPPoE	PPPoE Username	____.____.____.____
		PPPoE Password	____.____.____.____
DHCP			
WAN2 (Port 2)	Fixed IP	IP Address	____.____.____.____
		Subnet Mask	____.____.____.____
		Gateway IP	____.____.____.____
		Primary DNS	____.____.____.____
		Secondary DNS	____.____.____.____
	PPPoE	PPPoE Username	____.____.____.____
		PPPoE Password	____.____.____.____
DHCP			
DMZ1(Port 3)	IP Address	10.1.1.254	____.____.____.____
	IP Subnet Mask	255.255.255.0	____.____.____.____
LAN1(Port 4)	IP Address	192.168.1.254	____.____.____.____
	IP Subnet Mask	255.255.255.0	____.____.____.____
LAN2(Port 5)	IP Address	192.168.2.254	____.____.____.____
	IP Subnet Mask	255.255.255.0	____.____.____.____

# System Architecture

DFL-1500 is an integrated solution that can provide enterprises the maximum security and the best resource utilization. It contains stateful inspection Firewall, NAT, VPN, Intrusion Detection System, Dynamic Routing, Content Filtering, Bandwidth Management, WAN load balancer, in a single box. It also features high performance accelerator and wire-speed VPN encryption/decryption. It is the most cost-effective solution for enterprise.

## Organization\_1

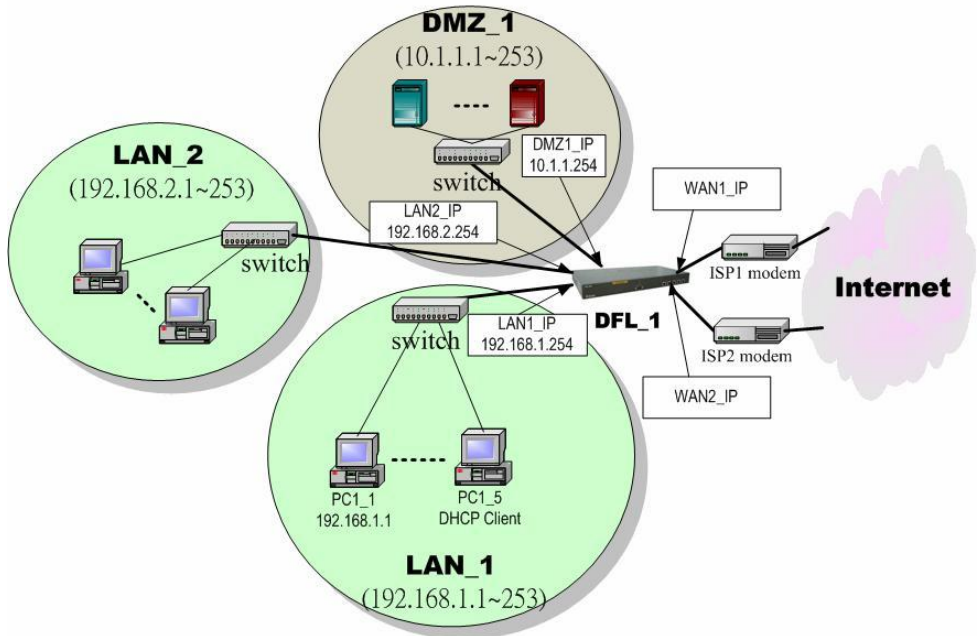


Figure 1 DFL-1500 default topology and port value settings.

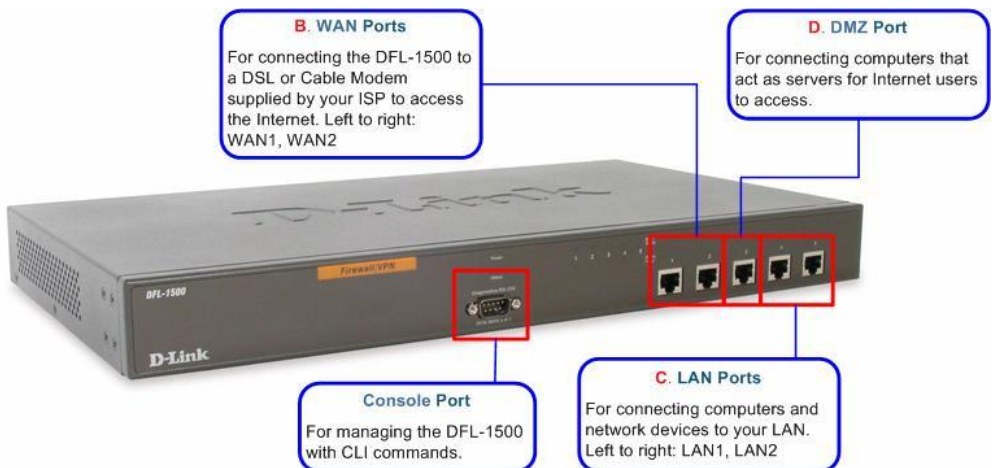
# 1

## Connecting the DFL-1500

- A. First, connect the power cord to the **Power Socket** at the back panel of the DFL-1500 and then plug the other end of the power adapter to a wall outlet or power strip. Press the switch to ON position. The Power LED will turn **ON** to indicate proper operation.



- B. Using an Ethernet cable, insert one end of the cable to the **WAN port** on the front panel of the DFL-1500 and the other end of the cable to a DSL / Cable modem or other internet access devices.
- C. Computers with an Ethernet adapter can be directly connected to any of the **LAN ports** using a **cross-over** Ethernet cable.
- D. Computers that act as servers to provide Internet services should be connected to the **DMZ port** using an Ethernet Cable.

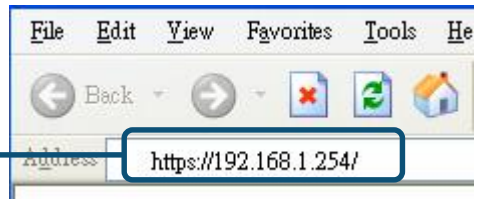


# 2

## Using the Setup Wizard

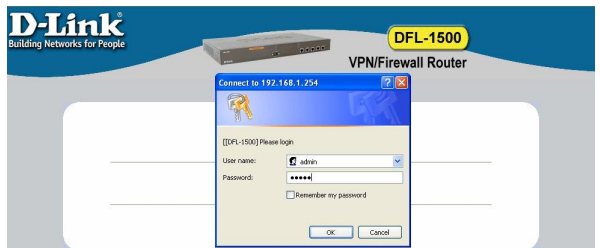
A computer on your LAN1 must be assigned an IP address and subnet mask from the same range as the IP address and subnet mask assigned to the DFL-1500 in order to be able to make an HTTPS connection using a web browser. The DFL-1500 is assigned an IP address of 192.168.1.254 with a subnet mask of 255.255.255.0 by default. The computer that will be used to configure the DFL-1500 must be assigned an IP address between 192.168.1.1 and 192.168.1.253 with a subnet mask of 255.255.255.0 to be able to connect to the DFL-1500. This address range can be changed later. There are instructions in the DFL-1500 User's Guide, if you do not know how to set the IP address and subnet mask for your computer.

Open your Web browser and type "**http://192.168.1.254:8080**" or "**https://192.168.1.254**" into the URL address box. Then press the **Enter** or **Return** key.



### Step 1 — Login

Type "admin" in the account field, "admin" in the Password field and click Login.



### Step 2 — Run Setup Wizard

Click the Run Setup Wizard.

### After login to DFL-1500 web configurator BASIC SETUP > Wizard

Welcome to the DFL-1500 Web-Based Configuration !

- Basic Setup**  
Connect to the Internet and configure your Intranet with the Setup Wizard (WAN, LAN and DMZ settings, routing protocol and DHCP server settings).
- System Tools**  
Setup DDNS, DNS proxy, DHCP relay, system password/time/date/timeouts, protocol services, interface types, perform firmware upgrade, save running configurations, backup/restore configurations, reset to factory defaults, customize remote management and SNMP, schedule database update.
- Help**  
Get help about your VPN/Firewall Router.

Setup Wizard  
A step-by-step setup wizard will guide you to configure your VPN/Firewall Router to connect to your ISP (Internet Service Provider).

**Run Setup Wizard**

### Step 3 — System Name

Enter the Host Name and the Domain Name, followed by clicking the Next.

### BASIC SETUP > Wizard

System Name | Operation Mode | WAN1 IP | System Status

Host Name: DFL-1500  
Domain Name: dlink.com

Next

### Step 4 — Operation Mode

DFL-1500 VPN/Firewall Router can operate in NAT/Router mode or Transparent mode. Choose which operation Mode for this device to use.

### BASIC SETUP > Wizard > Next

System Name | Operation Mode | WAN1 IP | System Status

Operation Mode: NAT/Router

Back | Next

### Step 5 — WAN Connectivity

To setup the first WAN link, make WAN1 as the Default WAN link (Gateway/DNS). Choose the type of IP Address Assignment provided by your ISP to access the Internet. Here we have four types to select. This will determine how the IP address of WAN1 is obtained. Click Next to proceed.

### BASIC SETUP > Wizard > Next > WAN1 IP

System Name | Operation Mode | WAN1 IP | System Status

IP Address Assignment: Get IP Automatically (DHCP)

Default WAN link (Gateway/DNS)

Get IP Automatically (DHCP)  
Fixed IP Address  
PPP over Ethernet  
Not initialized

Get DNS Automatically

DNS IP Address

Primary DNS: 0.0.0.0  
Secondary DNS: 0.0.0.0

Routing Protocol: None

OSPF Area ID:

Back | Next

### Step 5.a — DHCP client

If Get IP Automatically (DHCP) is selected, DFL-1500 will request for IP address, netmask, and DNS servers from your ISP. You can use your preferred DNS by clicking the DNS IP Address and then completing the Primary DNS and Secondary DNS server IP addresses. Click Next to proceed.

### BASIC SETUP > Wizard > Next > DHCP

System Name | Operation Mode | WAN1 IP | System Status

IP Address Assignment: Get IP Automatically (DHCP)

Default WAN link (Gateway/DNS)

Get DNS Automatically

DNS IP Address

Primary DNS: 168.95.1.1  
Secondary DNS: 0.0.0.0

Routing Protocol: None

OSPF Area ID:

Back | Next

### Step 5.b — Fixed IP

If Fixed IP Address is selected, enter the ISP-given IP Address, Subnet Mask, Gateway IP, Primary DNS and Secondary DNS IP. Click Next to proceed.

### BASIC SETUP > Wizard > Next > Fixed IP

System Name	Operation Mode	WAN1 IP	System Status
IP Address Assignment Fixed IP Address			
<input checked="" type="checkbox"/> Default WAN link (Gateway/DNS)			
IP Address	1.2.1.1	Subnet Mask	255.255.255.248
Gateway IP	1.2.1.6		
<input type="radio"/> DNS IP Address			
Primary DNS	168.95.1.1		
Secondary DNS	0.0.0.0		
Routing Protocol	None		
OSPF Area ID			
			Back Next

### Step 5.c — PPPoE client

If PPP over Ethernet is selected, enter the ISP-given User Name, Password and the optional Service Name. Click Next to proceed.

### BASIC SETUP > Wizard > Next > PPPoE

System Name	Operation Mode	WAN1 IP	System Status
IP Address Assignment PPP over Ethernet			
<input checked="" type="checkbox"/> Default WAN link (Gateway/DNS)			
Service Name	(Optional)		
User Name	hey		
Password	*****		
<input type="radio"/> Get DNS Automatically			
<input checked="" type="radio"/> DNS IP Address			
Primary DNS	168.95.192.1		
Secondary DNS	168.95.1.1		
Disconnected			
			Back Next

### Step 5.d — Alert Message

Please Note that an alert message box "When changing to none fixed ip mode, system will delete all ip alias!" will appear while you change Get IP Automatically (DHCP) or PPP over Ethernet but not Fixed IP Address as your WAN link.



## Step 6 — System Status

Here we select Fixed IP method in WAN1 port. Then the DFL-1500 provides a short summary of the system. Please check if anything mentioned above is properly set into the system. Click Finish to close the wizard.

## BASIC SETUP > Wizard > Next > Next

System Name	Operation Mode	WAN1 IP	System Status
System Name: DFL-1500.dlink.com			
Firmware Version: NetOS Ver2.000 (WALL) #0: Wed Sep 1 05:56:36 CST 2004			
Software Serial Number: 60623576436830003320			
Operation Mode: NAT/Router			
Default gateway: 61.2.1.6			
Primary DNS: 168.95.1.1			
Secondary DNS:			
Port1:	WAN1 (Static IP)[Default]		
	IP Address: 61.2.1.1		Subnet Mask: 255.255.255.248
Port2:	WAN2 (Not initialized)		
	IP Address: not set		
Port3:	DMZ1		
	IP Address: 10.1.1.254		Subnet Mask: 255.255.255.0
Port4:	LAN1		
	IP Address: 192.168.1.254		Subnet Mask: 255.255.255.0
Port5:	LAN2		
	IP Address: 192.168.2.254		Subnet Mask: 255.255.255.0



# 3

## Basic Setup

Setting up a VPN and configuring the Firewall on the DFL-1500 requires a deeper understanding of the protocols and security features of the DFL-1500 than can be presented here. If you need additional information about setting up a VPN or configuring the Firewall, please consult your *DFL-1500 User's Guide* or your Network Administrator.

### **Please Note:**

Each configuration page has buttons on the bottom labeled **Apply** and **Reset**. When you configure any page, you must press the **Apply** button to make the configuration effective. You **CANNOT** configure multiple pages, and then press **Apply**. Each page must have the configuration information 'applied' before going on to the next page.

## WAN Settings

The WAN Settings page allows you to modify the protocol that the DFL-1500 will use to connect to your ISP and obtain the necessary network address information.

The usage of these pages is essentially the same as those introduced in the wizard pages. The ISP Settings page allows you to modify the way that the DFL-1500 obtains its network settings from your Internet Service Provider (ISP). The entry fields on the page will change depending upon which of the following options you choose: **Fixed IP Address**, **Get IP Automatically**, and **PPPoE**.

### 1. Get IP Automatically

If your ISP uses the Dynamic Host Configuration Protocol (DHCP) to assign an IP address, subnet mask, default gateway and DNS addresses, choose this option.

The screenshot shows the WAN Settings configuration page for 'WAN2 IP'. At the top, there are three tabs: 'WAN1 IP', 'WAN2 IP' (selected), and 'IP Alias'. Below the tabs, the 'IP Address Assignment' dropdown menu is set to 'Get IP Automatically (DHCP)'. A checkbox labeled 'Default WAN link (Gateway/DNS)' is checked. Below this, there are two radio button options: 'Get DNS Automatically' (unselected) and 'DNS IP Address' (selected). Under 'DNS IP Address', there are two text input fields: 'Primary DNS' with the value '168.95.1.1' and 'Secondary DNS' with the value '0.0.0.0'. Below these fields, there is a 'Routing Protocol' dropdown menu set to 'None' and an empty 'OSPF Area ID' text input field. At the bottom center, there is an 'Apply' button.

## 2. Fixed IP Address

If your ISP has assigned you an IP address that will never change, choose this option. When this option is chosen, the following fields appear to allow you to enter the network address information. The example shows that the ISP assigns an IP 61.2.1.1, a netmask 255.255.255.248, a default gateway 61.2.1.6, and DNS (168.95.1.1).

The screenshot shows the WAN1 IP configuration interface. At the top, there are three tabs: 'WAN1 IP', 'WAN2 IP', and 'IP Alias'. The 'WAN1 IP' tab is selected. Below the tabs, there is a dropdown menu for 'IP Address Assignment' set to 'Fixed IP Address'. A checkbox labeled 'Default WAN link (Gateway/DNS)' is checked. The configuration fields are as follows:

- IP Address: 61.2.1.1
- Subnet Mask: 255.255.255.248
- Gateway IP: 61.2.1.6
- DNS IP Address:  (selected)
- Primary DNS: 168.95.1.1
- Secondary DNS: 0.0.0.0
- Routing Protocol: None
- OSPF Area ID: (empty)

An 'Apply' button is located at the bottom center of the form.

## 3. PPPoE

If your ISP uses Point-to-Point Protocol over Ethernet (**PPPoE**), choose this option. When this option is chosen, the following fields appear to allow you to enter the related account information.

The screenshot shows the WAN1 IP configuration interface. At the top, there are three tabs: 'WAN1 IP', 'WAN2 IP', and 'IP Alias'. The 'WAN1 IP' tab is selected. Below the tabs, there is a dropdown menu for 'IP Address Assignment' set to 'PPP over Ethernet'. A checkbox labeled 'Default WAN link (Gateway/DNS)' is checked. The configuration fields are as follows:

- Service Name: (empty) (Optional)
- User Name: Hey
- Password: (masked with dots)
- Get DNS Automatically:  (selected)
- DNS IP Address:  (unselected)
- Primary DNS: 168.95.192.1
- Secondary DNS: 168.95.1.1

Below the DNS settings, the status is 'Connected'. The IP Address is 218.168.175.234/255.255.255.0 and the Gateway IP is 218.168.152.254. A 'Disconnect' button is located below the status information. An 'Apply' button is located at the bottom center of the form.

IP Address Assignment	FIELD	DESCRIPTION
Get IP Automatically (DHCP)	Default WAN link (Gateway/DNS)	When Default WAN link is enabled. All the packets sent out from DFL-1500 will be via this port.
	Get DNS Automatically or DNS IP Address	Get DNS Automatically à Get DNS related information from DHCP Server DNS IP Address à manually specify these Primary and Secondary DNS Server information
	Routing Protocol	Determine to enable the dynamic routing protocol, to receive RIP message, to send out the RIP message if the RIP message is received or not.
	OSPF Area ID	Specify OSPF area ID number
Fixed IP Address	Default WAN link	When Default WAN link is enabled. All the packets sent out from DFL-1500 will be via this port.
	IP Address / Subnet Mask	Specified IP address and subnet mask
	Gateway IP	Default gateway IP address
	DNS IP Address	Specified Primary and Secondary DNS Server address
	Routing Protocol	Determine to enable the dynamic routing protocol, to receive RIP message, to send out the RIP message if the RIP message is received or not.
	OSPF Area ID	Specify OSPF area ID number
PPP over Ethernet	Default WAN link	When Default WAN link is enabled. All the packets sent out from DFL-1500 will be via this port.
	Service Name	ISP vendor (Optional)
	User Name	The user name of PPPoE account
	Password	The password of PPPoE account

Get DNS Automatically / DNS IP Address	Get DNS Automatically à Get DNS related information from PPPoE ISP DNS IP Address à manually specify these Primary and Secondary DNS Server information
Disconnect button	Through click Disconnect button to disconnect PPPoE line

**To simplify the initial settings of the DFL-1500, the Network Address Translation is automatically configured if the NAT Basic mode is selected. Then the DFL-1500 will let all private-IP traffic from the subnets of LAN/DMZ ports to access the Internet using the global IP address assigned by the ISP.**

## LAN Settings

The LAN Settings page allows you to modify the IP address and subnet mask that will identify the DFL-1500 on your LAN. This is the IP address you will enter in the URL field of your web browser to connect to the DFL-1500. It is also the IP address that all of the computers and devices on your LAN will use as their Default Gateway.

The screenshot shows the LAN Settings page with the following elements:

- Navigation tabs: LAN1 Status, LAN2 Status, IP Alias
- Section: LAN1 TCP/IP
  - IP Address: 192.168.1.254
  - IP Subnet Mask: 255.255.255.0
- Section: DHCP Setup
  - Enable DHCP Server
  - IP Pool Starting Address: 192.168.1.100
  - Pool Size(max size: 253): 20
  - Primary DNS Server: 192.168.1.254
  - Secondary DNS Server: 0.0.0.0
  - Lease time(sec): 7200
- Routing Protocol: None (dropdown menu)
- OSPF Area ID: (empty text field)
- Apply button (circled in red)

**IP Address** – this is the IP address that will be assigned to the LAN port. The default is 192.168.1.254 with a subnet mask of 255.255.255.0.

**IP Subnet Mask** – this is the subnet mask corresponding to the LAN port’s IP address, above. The default is 255.255.255.0.

The IP address assigned to the DFL-1500 here, must be on the same subnet (be within the same IP address range) specified on the **DHCP Servers**. The DHCP Server fields allow you to configure the DFL-1500 to be a DHCP Server on your LAN. The DFL-1500 can then automatically assign IP addresses, subnet masks, default gateway and DNS server addresses to computers on your LAN. The computers on your LAN must have a DHCP client enabled to get their network address information from the DFL-1500.

**IP Pool Starting Address** – the first IP address of the range from which the DFL-1500 will assign to each of the computers on your LAN.

**Pool Size** - the number of IP addresses which the DFL-1500 will assign to the computers on you LAN.

FIELD	DESCRIPTION	Range / Limitation
IP Address	LAN port IP address	IPv4 format
IP Subnet Mask	LAN port IP subnet mask	netmask format
Enable DHCP Server	Enable LAN port of the DHCP Sever or not	Enable/Disable
IP Pool Starting Address	Specify the starting address of the DHCP IP address.	IPv4 format in the LAN address range
Pool Size(max size: 253)	Specify the numbers of the DHCP IP address.	1 ~253
Primary DNS Server	Specify the Primary DNS Server IP address of the DHCP information.	IPv4 format
Secondary DNS Server	Specify the Secondary DNS Server IP address of the DHCP information.	IPv4 format
Lease time(sec)	Specify DHCP information lease time	greater than 0
Routing Protocol	Determine to enable the dynamic routing protocol (RIP), to receive RIP message, to send out RIP message if the message is received or not.	None / RIPv1In / RIPv1In+out / RIPv2In / RIPv2In+out / OSPF
OSPF Area ID	Specify OSPF area ID number	IPv4 format or digital string (Max 9 bits)

# DMZ Settings

The DFL-1500 has one **DMZ** port for connecting servers that are exposed to the public Internet for accesses. The **DMZ** port is assigned an IP address of 10.1.1.254 with a subnet mask of 255.255.255.0 by default. Note that the DMZ IP address is on the 10.1.1.x subnet while the LAN ports are on the 192.168.1.x subnet by default.

DMZ1 Status IP Alias

**DMZ1 TCP/IP**

IP Address 10.1.1.254 IP Subnet Mask 255.255.255.0

**DHCP Setup**

Enable DHCP Server

IP Pool Starting Address 10.1.1.1

Pool Size(max size: 253) 20

Primary DNS Server 10.1.1.254

Secondary DNS Server 0.0.0.0

Lease time(sec) 7200

Routing Protocol None

OSPF Area ID

Apply

**IP Address** – this is the IP address that will be assigned to the DMZ port. The default is 10.1.1.254 with a subnet mask of 255.255.255.0.

**IP Subnet Mask** – this is the subnet mask corresponding to the DMZ port’s IP address, above. The default is 255.255.255.0.

The IP address assigned to the DFL-1500 here, must be on the same subnet (be within the same IP address range) specified on the **DHCP Servers**. The DHCP Server fields allow you to configure the DFL-1500 to be a DHCP Server on your DMZ. The DFL-1500 can then automatically assign IP addresses, subnet masks, default gateway and DNS server addresses to computers on your DMZ. The computers on your DMZ must have a DHCP client enabled to get their network address information from the DFL-1500.

**IP Pool Starting Address** – the first IP address of the range from which the DFL-1500 will assign to each of the computers on your DMZ.

**Pool Size** - the number of IP addresses which the DFL-1500 will assign to the computers on you DMZ.

FIELD	DESCRIPTION	Range / Limitation
IP Address	DMZ port IP address	IPv4 format

IP Subnet Mask	DMZ port IP subnet mask	netmask format
Enable DHCP Server	Enable DMZ port of the DHCP Sever or not	Enable/Disable
IP Pool Starting Address	Specify the starting address of the DHCP IP address.	IPv4 format in the DMZ address range
Pool Size(max size: 253)	Specify the numbers of the DHCP IP address.	1 ~253
Primary DNS Server	Specify the Primary DNS Server IP address of the DHCP information.	IPv4 format
Secondary DNS Server	Specify the Secondary DNS Server IP address of the DHCP information.	IPv4 format
Lease time(sec)	Specify DHCP information lease time	greater than 0
Routing Protocol	Determine to enable the dynamic routing protocol (RIP), to receive RIP message, to send out RIP message if the message is received or not.	None / RIPv1In / RIPv1In+out / RIPv2In / RIPv2In+out / OSPF
OSPF Area ID	Specify OSPF area ID number	IPv4 format or digital string (Max 9 bits)

## Virtual Server Settings

**Virtual Servers** are computers connected using the **DMZ** port. They act as servers to provide services to your LAN ports or other Internet users on the WAN ports. The Virtual Server setting page maps one global IP address – an IP address that is valid on the Internet, usually assigned by your ISP – to one local IP address from the IP address range assigned to the DFL-1500's **DMZ** port. The default DMZ IP address is 10.1.1.254, so the servers' IP must range from 10.1.1.1 to 10.1.1.253, with a subnet mask of 255.255.255.0.

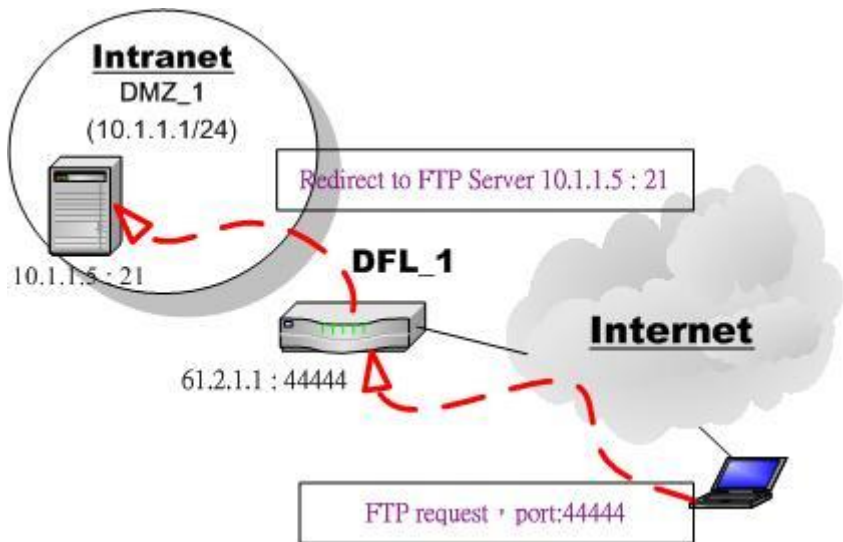


Figure 2 Internet host connects to the Virtual Server behind DFL-1500.

As the above Figure 2 illustrated, the server 10.1.1.5 provides FTP service and is located on the DMZ region behind DFL-1500. By this way, DFL-1500 will act as a Virtual Server role which redirects the packets to the real server 10.1.1.5. And you can announce to the internet users that the ftp server ip/port is 61.2.1.1/44444. So, all of the internet users can connect the 61.2.1.1/44444 to get ftp service.

**An example virtual server:** Customize the rule name as the ftpServer. For any packets with its destination IP equaling to the WAN1 IP (61.2.1.1) and destination port equaling to 44444, ask DFL-1500 to translate the packet's destination IP/port into 10.1.1.5/21. Check the `Passive FTP client` at this port to maximize the compatibility of the FTP protocol. This is useful if you want to provide connectivity to passive FTP clients. For passive FTP clients, the server will return them the private IP address and the port number for them to connect back to do data transmissions. Since the private IP from them cannot be routed to our zone, the data connections would fail. After enabling this feature, the DFL-1500 will translate the private IP/port into an IP/port of its own. Thus the problem is gracefully solved.



Status	NAT Rules	Virtual Servers
Virtual Server->Edit Rules->Insert		
<b>Insert a new Virtual Server rule</b>		
<b>Status</b>		
<input checked="" type="checkbox"/> Activate this rule		
Rule name: <input type="text" value="ftpServer"/>		
<b>Condition</b>		
Sessions from Internet connecting to <input type="text" value="WAN1"/>		
External IP: <input type="text" value="61.2.1.1"/>		
Service: <input type="text" value="TCP"/>		
Type <input checked="" type="radio"/> Single <input type="radio"/> Range		
Dest. Port: <input type="text" value="44444"/> <input checked="" type="checkbox"/> Passive FTP client?		
to <input type="text" value="0"/>		
<b>Action</b>		
Redirect to internal server under <input type="text" value="DMZ1"/>		
Internal IP: <input type="text" value="10.1.1.5"/> Port: <input type="text" value="21"/>		
<input type="button" value="Back"/> <input type="button" value="Apply"/>		

	FIELD	DESCRIPTION
Status	Activate this rule	The Virtual Server rule is enabled or not
	Rule name	The Virtual Server rule name
Condition	Sessions from Internet connecting to	Which interface does the connected session come from?
	External IP	The public IP address of the Virtual Server.
	Service	TCP or UDP protocol
	Type	Port is Single or Range
	Dest Port	The port number in the internet.
	Passive FTP client?	If the Passive FTP client is checked, it will connect to the internal DMZ FTP server of DFL-1500 when FTP client uses passive mode. Otherwise, it will not work.
Action	Redirect to internal server under	The subnet which is located the virtual server.
	Translated dest IP	The IP address which is actually transferred to the internal DMZ
	Translated dest port	The port number which is actually transferred to the internal DMZ.

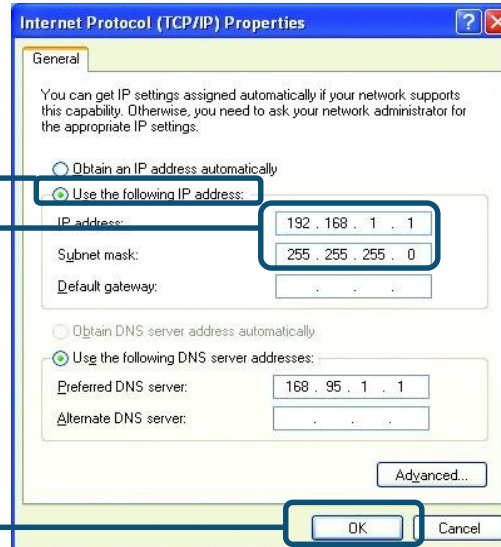
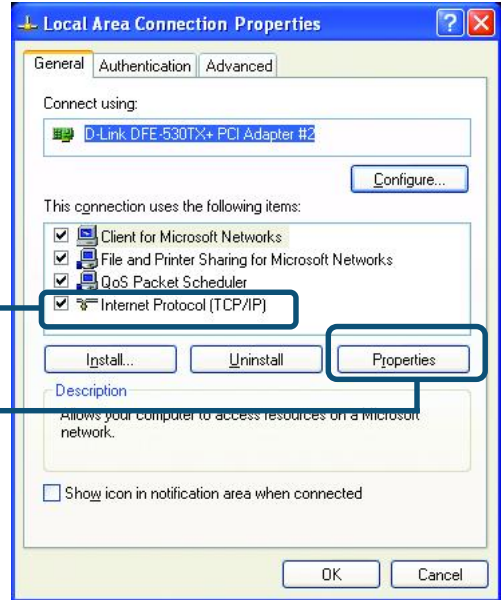
# APPENDIX

To assign a Static IP address to the Ethernet adapter, please do the following steps. The examples below are using a DFE-530TX+ in Microsoft Windows XP, and Mac OS X.

**Note:** Screens in other Operating Systems will look a bit different, but the steps are the same.

For **Microsoft Windows XP:**

Go to **Start > right click on My Network Places > select Properties > Double-click on the Network Connection** associated with the Ethernet adapter (i.e., D-Link DFE-530TX+).



# Setting a Static IP address for Apple Macintosh OS X:

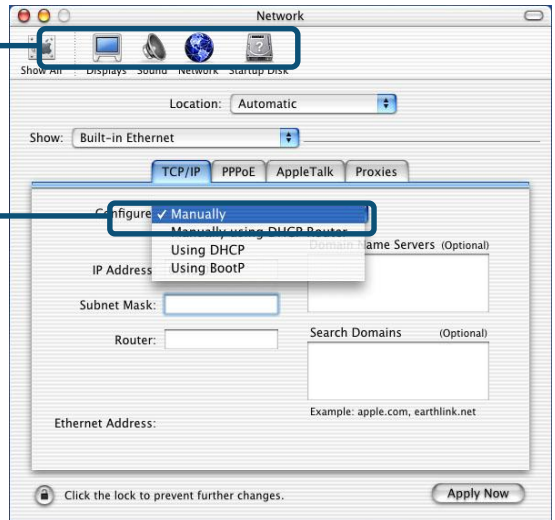
Go to the **Apple Menu** and **Select System Preferences**.

Click on **Network**



Select **Built-in Ethernet** in the Show pull-down menu

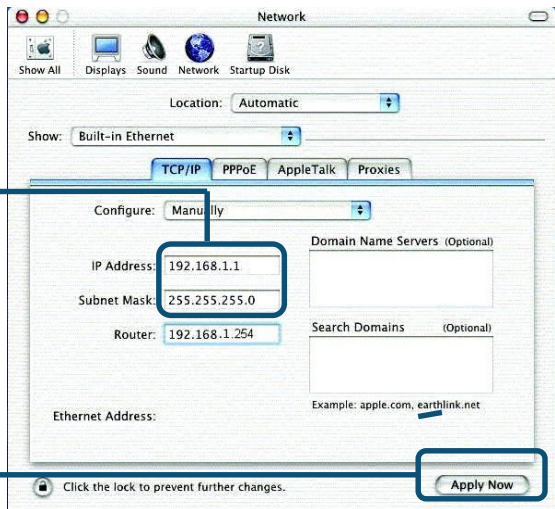
Select **Manually** in the Configure pull-down menu



Enter the following:  
IP address: **192.168.1.1**  
Subnet mask: **255.255.255.0**

Enter the IP address information, the Subnet Mask and the Router's IP address.

Click on **Apply Now**



# 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](mailto:support@dlink.com)

## Tech Support for customers within Canada:

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

(800) 361-5265

Monday to Friday 8:30am to 9:00pm EST

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

<http://support.dlink.ca>

[email:support@dlink.ca](mailto:support@dlink.ca)

## Tech Support for customers within the United Kingdom & Ireland:

### ***D-Link UK & Ireland Technical Support over the Telephone:***

+44 (0)20 7365 8440 (United Kingdom)

+353 (0)12 421 061 (Ireland)

Monday to Friday 8:00 am to 10:00 pm

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

<http://www.dlink.co.uk>

## Technische Unterstützung

Aktualisierte Versionen von Software und Benutzerhandbuch finden Sie auf der Website von D-Link.

D-Link bietet kostenfreie technische Unterstützung für Kunden innerhalb Deutschlands, Österreichs, der Schweiz und Osteuropas.

Unsere Kunden können technische Unterstützung über unsere Website, per E-Mail oder telefonisch anfordern.

Web: <http://www.dlink.de>  
E-Mail: [support@dlink.de](mailto:support@dlink.de)  
Telefon: 00800 7250 4000

Telefonische technische Unterstützung erhalten Sie montags bis donnerstags von 08.00 bis 19.00 Uhr, freitags von 08.00 bis 17.00 Uhr.

Wenn Sie Kunde von D-Link außerhalb Deutschlands, Österreichs, der Schweiz und Osteuropas sind, wenden Sie sich bitte an die zuständige Niederlassung aus der Liste im Benutzerhandbuch.

**D-Link®**  
Building Networks for People

## Assistance technique

Vous trouverez la documentation et les logiciels les plus récents sur le site web **D-Link**.

Le service technique de **D-Link** est gratuit pour les clients aux Etats-Unis durant la période de garantie.

Ceux-ci peuvent contacter le service technique de **D-Link** par notre site internet ou par téléphone.

**Assistance technique D-Link par téléphone :**  
0 820 0803 03

**Assistance technique D-Link sur internet :**  
Web : <http://www.dlink.fr>  
E-mail : [support@dlink.fr](mailto:support@dlink.fr)

**D-Link**<sup>®</sup>  
Building Networks for People

## Asistencia Técnica

Puede encontrar el software más reciente y documentación para el usuario en el sitio web de **D-Link** . **D-Link** ofrece asistencia técnica gratuita para clientes dentro de España durante el periodo de garantía del producto. Los clientes españoles pueden ponerse en contacto con la asistencia técnica de **D-Link** a través de nuestro sitio web o por teléfono.

**Asistencia Técnica de D-Link por teléfono:**  
**93 409 0775**

de lunes a viernes desde las 9:00 hasta las 14:00 y de las 15:30 hasta las 18:30

**Asistencia Técnica de D-Link a través de Internet:**  
<http://www.dlink.es/supporto/main/view.html>  
email: [soporte@dlink.es](mailto:soporte@dlink.es)

**D-Link**<sup>®</sup>  
Building Networks for People

# Supporto tecnico

Gli ultimi aggiornamenti e la documentazione sono disponibili sul sito D-Link.

## Supporto tecnico per i clienti residenti in Italia

**D-Link Mediterraneo S.r.L.**

Via N. Bonnet 6/B 20154 Milano

Supporto Tecnico dal lunedì al venerdì dalle ore  
9.00 alle ore 19.00 con orario continuato  
Telefono: 02-39607160

URL : <http://www.dlink.it/supporto.html>  
Email: [tech@dlink.it](mailto:tech@dlink.it)

**D-Link®**  
Building Networks for People



## Техническая поддержка

Вы можете найти последнюю версию программного обеспечения и документацию по продуктам на сайте **D-Link**

**D-Link** обеспечивает бесплатную техническую поддержку клиентов в течение гарантийного срока изделия.

**Клиенты могут связаться со службой технической поддержки**

**D-Link через наш web-сайт, или по телефону.**

Телефоны службы технической поддержки D-Link:  
+7 (095) 744 00 99

**Техническая Поддержка D-Link через Internet:**

[support@dlink.ru](mailto:support@dlink.ru)

**D-Link<sup>®</sup>**  
**Building Networks for People**

## 友冠技術支援

台灣地區用戶可以透過我們的網站，電子郵件或電話與友冠資訊技術支援人員聯絡。

支援服務時間從

週一到週五，上午 8:30 a.m. 到 7:00 p.m

Web: <http://www.dlinktw.com.tw/>

FAQ: <http://www.dlinktw.com.tw/suppFaq.asp>

Email: [dssqa@dlinktw.com.tw](mailto:dssqa@dlinktw.com.tw)

Phone: 0800-002-615

如果您是台灣地區以外的用戶，請參考使用手冊

**D-Link**<sup>®</sup>  
Building Networks for People