

Setting up VPN connection: XP PPTP to DI-804HV

VPN setup; XP PPTP to DFL-600
(This example is using Static WAN IP addresses)
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Office Unit: DFL-600 (firmware 1.05 b91)

LAN IP: 192.168.0.1 Subnet Mask: 255.255.255.0

WAN IP: 202.129.109.74 Subnet Mask: 255.255.255.224

Default Gateway: 202.129.109.65

Workstation A:

IP: 192.168.0.10 Subnet Mask: 225.255.255.0

Default Gateway: 192.168.0.1

Home Unit: XP

WAN IP: ? Subnet Mask: ?

Default Gateway: ?

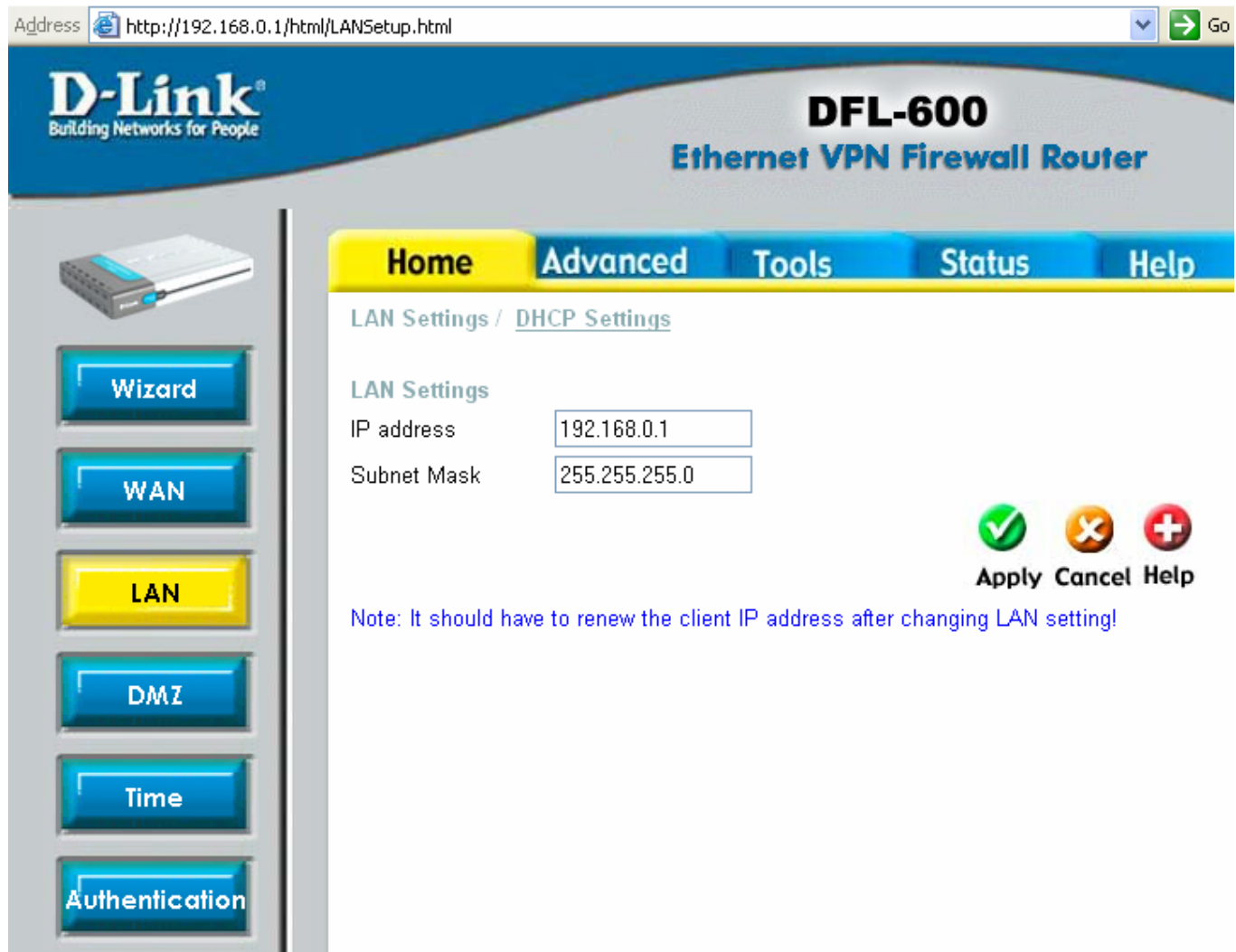
If you are using DSL-300, DSL-300+, DSL-302G modem or DSL-500, DSL-504, DSL-604+ router please see Appendix 3 at the end of this document.

Setup for DFL-600

This is the page you need to go into to change the IP, once you have change it make sure your PC has the same subnet.

Remember to Access the unit with the default IP 192.168.0.1

Once you have changed the LAN IP address on the router, make sure your PC has an IP address from the same subnet (192.168.2.x in this example), you may just need to renew IP on your PC or reboot.

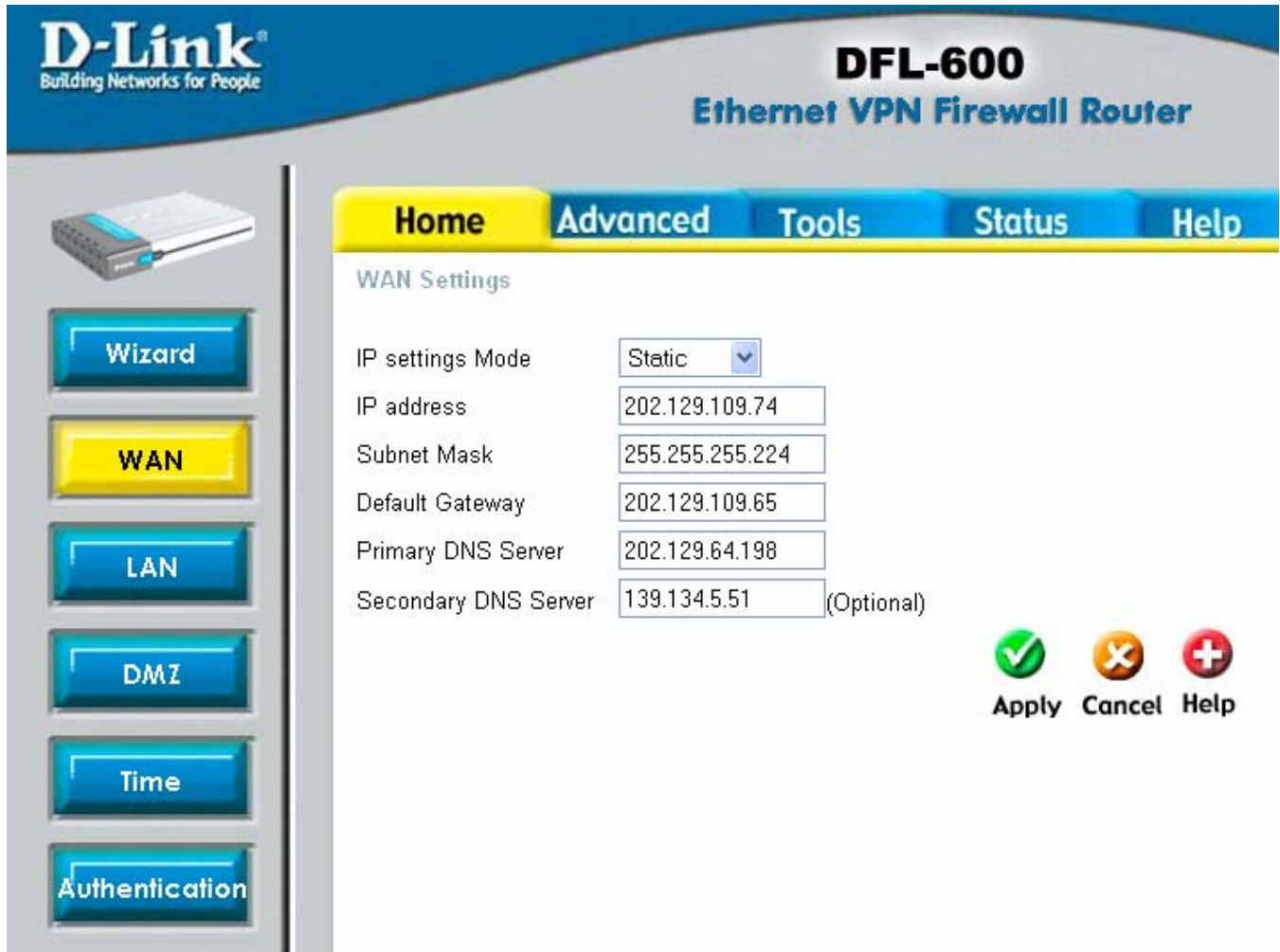


The screenshot shows the web interface of a D-Link DFL-600 router. The browser address bar shows `http://192.168.0.1/html/LANSetup.html`. The page header includes the D-Link logo and the model name "DFL-600 Ethernet VPN Firewall Router". A navigation bar at the top has tabs for "Home", "Advanced", "Tools", "Status", and "Help". On the left side, there is a vertical menu with buttons for "Wizard", "WAN", "LAN" (which is highlighted in yellow), "DMZ", "Time", and "Authentication". Above the "LAN" button is a small image of the router. The main content area is titled "LAN Settings / DHCP Settings" and contains two input fields: "IP address" with the value "192.168.0.1" and "Subnet Mask" with the value "255.255.255.0". To the right of these fields are three buttons: "Apply" (with a green checkmark icon), "Cancel" (with an orange X icon), and "Help" (with a red plus icon). Below the buttons, a blue note states: "Note: It should have to renew the client IP address after changing LAN setting!"

Next go to the Home > WAN page, choose the type of connection your ISP requires. In our example it is Static IP Address.

You need to have a static IP address the on WAN port of at least one unit out of two participating in VPN connection. Some PPPoE connections have a static IP as well (in most of such cases you do not have to specify the IP – your ISP will be providing you with the same IP every time you connect).

After setting up the WAN port click on Apply.



The screenshot displays the web interface of a D-Link DFL-600 Ethernet VPN Firewall Router. The interface has a blue header with the D-Link logo and the model name. A navigation bar includes tabs for Home, Advanced, Tools, Status, and Help. On the left, a sidebar contains buttons for Wizard, WAN (highlighted in yellow), LAN, DMZ, Time, and Authentication. The main content area is titled 'WAN Settings' and contains the following configuration fields:

IP settings Mode	Static
IP address	202.129.109.74
Subnet Mask	255.255.255.224
Default Gateway	202.129.109.65
Primary DNS Server	202.129.64.198
Secondary DNS Server	139.134.5.51 (Optional)

At the bottom right of the configuration area, there are three buttons: 'Apply' (with a green checkmark icon), 'Cancel' (with an orange 'X' icon), and 'Help' (with a red plus icon).

Next make sure you can access the Internet (that will confirm that you have set WAN settings correctly), then log back into the router and go into *Advanced > VPN-PPTP*.

Make sure you have PPTP Status box ticked.
Then click on PPTP Account Settings.

D-Link
Building Networks for People

DFL-600
Ethernet VPN Firewall Router

Home Advanced Tools Status Help

PPTP Settings / PPTP Account / PPTP Status

PPTP Pass Through ☐ Enable
PPTP Status ☒ Enable
Starting IP address 192.168.0.101
Ending IP address 192.168.0.116

Apply Cancel Help

Enter in a User Name and Password and then confirm the password again.
Then Click Apply.

Once you have click Apply, go into tools > System and click save settings and restart system.
This will save all of the settings.

**DFL-600**
Ethernet VPN Firewall Router


NAT
Routing
Policy
VPN-IPSec
VPN-PPTP
VPN-L2TP
DDNS

Home **Advanced** **Tools** **Status** **Help**

[PPTP Settings](#) / [PPTP Account](#) / [PPTP Status](#)

Add/New User Account

User Name

Password

Confirm Password

  
Apply **Cancel** **Help**

Total No. of Entries(PPTP / L2TP+PPTP): 1 / 64

User Name	View ID	Delete
test		

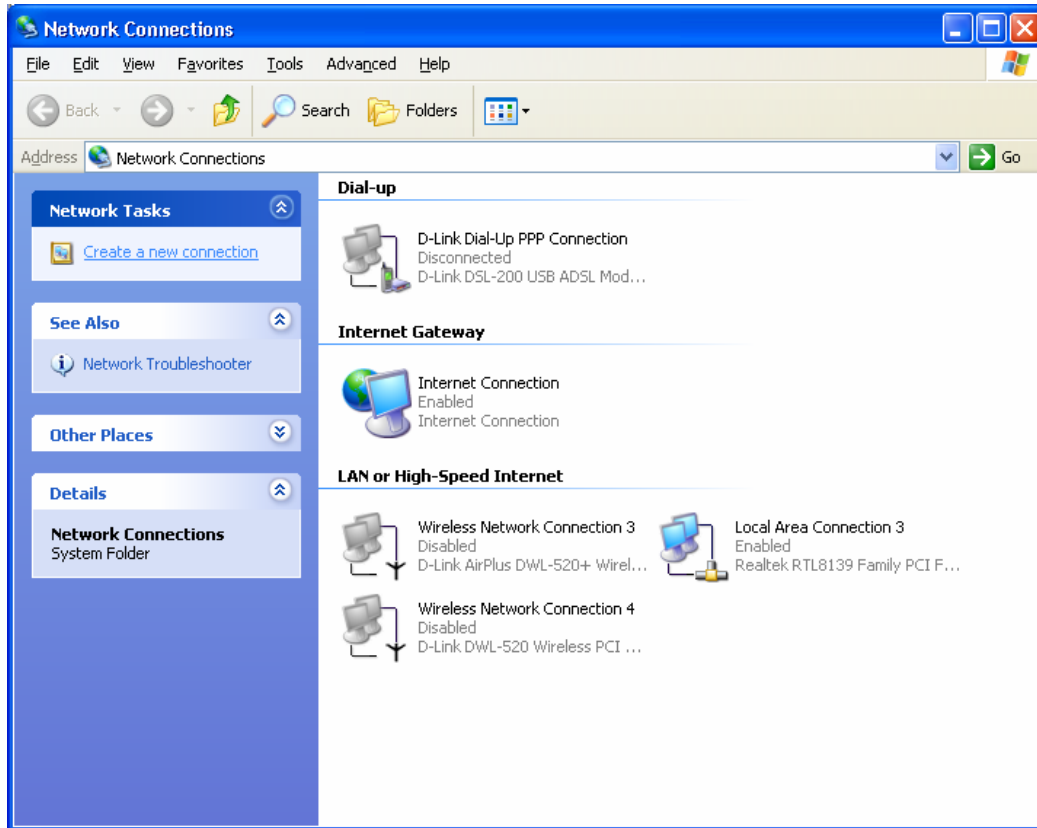
Page 1

Setup for WIN XP

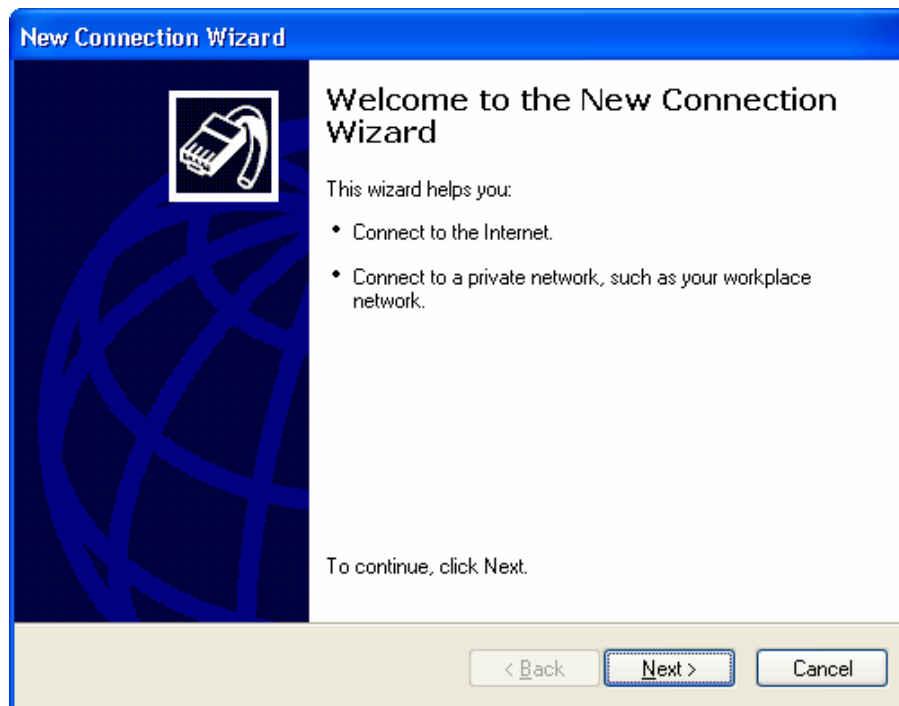
Click on Start > My Network Places, Then click on View Network Connections under the Network tasks on the left hand side.

You should see the below shot.

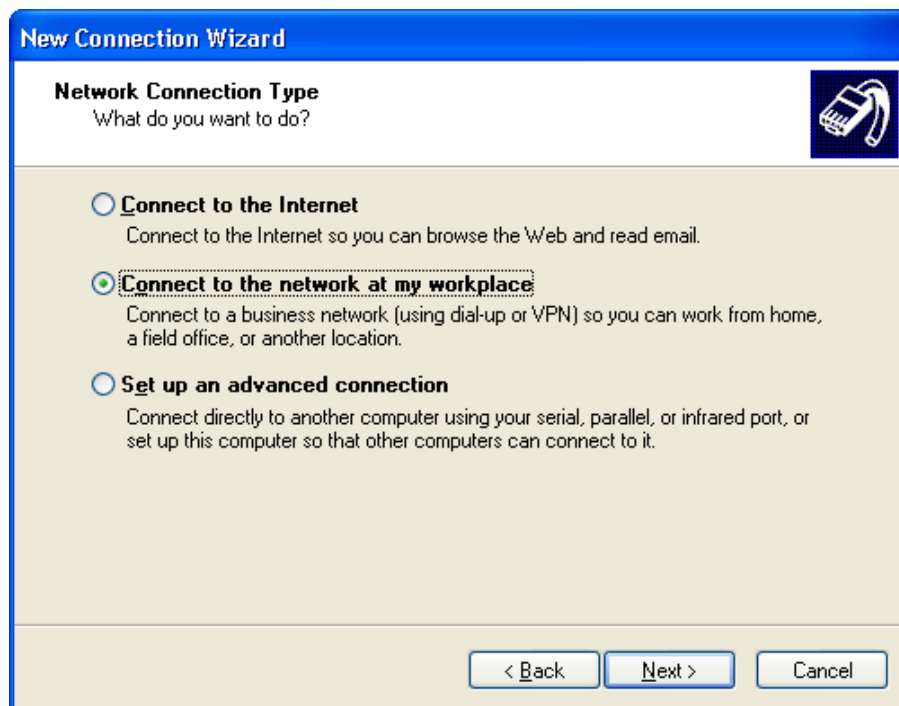
Click Create a new connection.



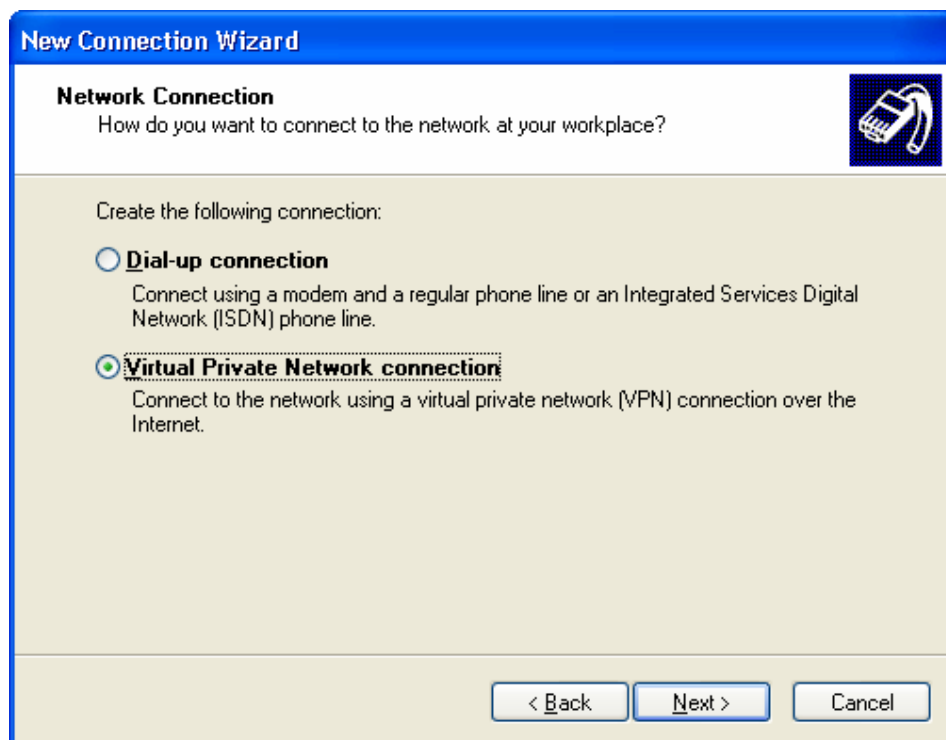
Click on **Next** when you get the Wizard as below.



Then choose **Connect to the network at my workplace**.
Click **Next**.



Click Virtual Private Network connection, then click on Next.



The screenshot shows the 'New Connection Wizard' window with the 'Network Connection' tab selected. The window has a blue title bar and a light beige background. In the top right corner, there is a small icon of a modem. The main text asks 'How do you want to connect to the network at your workplace?'. Below this, it says 'Create the following connection:'. There are two radio button options: 'Dial-up connection' and 'Virtual Private Network connection'. The 'Virtual Private Network connection' option is selected and highlighted with a dashed border. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'.

New Connection Wizard

Network Connection
How do you want to connect to the network at your workplace?

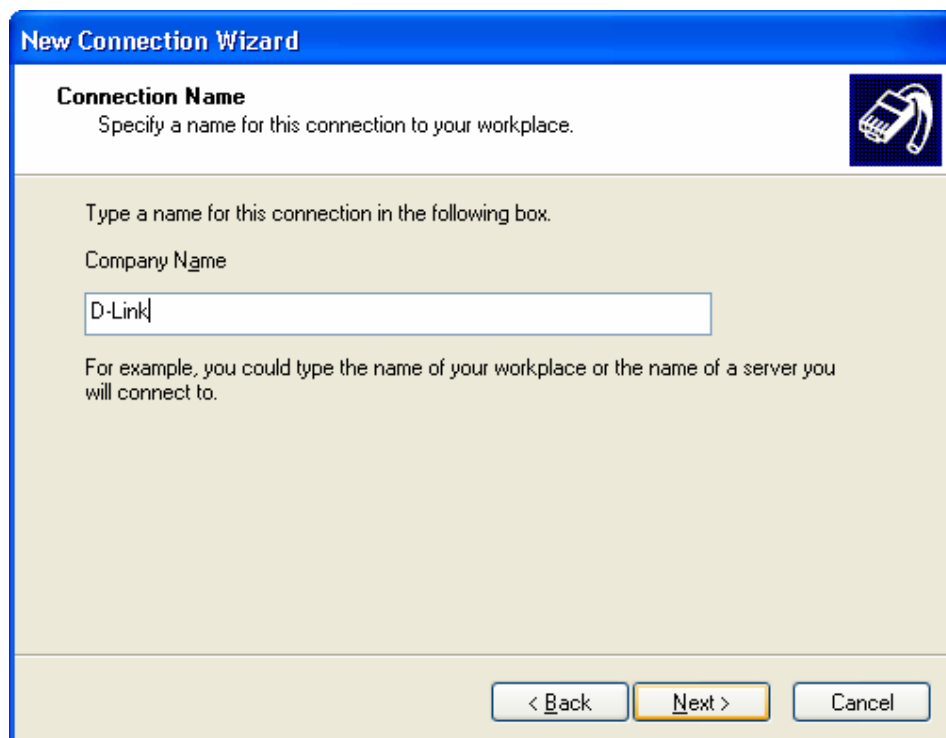
Create the following connection:

☐ **Dial-up connection**
Connect using a modem and a regular phone line or an Integrated Services Digital Network (ISDN) phone line.

☒ **Virtual Private Network connection**
Connect to the network using a virtual private network (VPN) connection over the Internet.

< Back Next > Cancel

Enter in a Company name, or enter in your name.



The screenshot shows the 'New Connection Wizard' window with the 'Connection Name' tab selected. The window has a blue title bar and a light beige background. In the top right corner, there is a small icon of a modem. The main text asks 'Specify a name for this connection to your workplace.'. Below this, it says 'Type a name for this connection in the following box.'. There is a text input field with the text 'D-Link' entered. Below the input field, there is a note: 'For example, you could type the name of your workplace or the name of a server you will connect to.'. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'.

New Connection Wizard

Connection Name
Specify a name for this connection to your workplace.

Type a name for this connection in the following box.

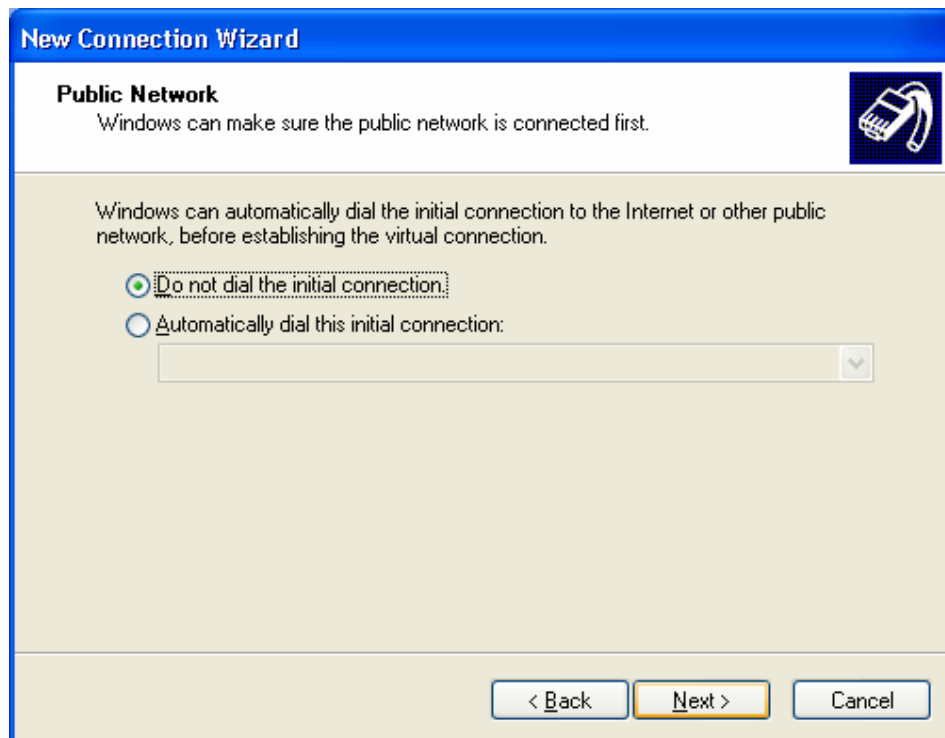
Company Name

D-Link

For example, you could type the name of your workplace or the name of a server you will connect to.

< Back Next > Cancel

Select do not dial the initial connect, if you use dial up we can change this later on, Click Next.



New Connection Wizard

Public Network
Windows can make sure the public network is connected first.

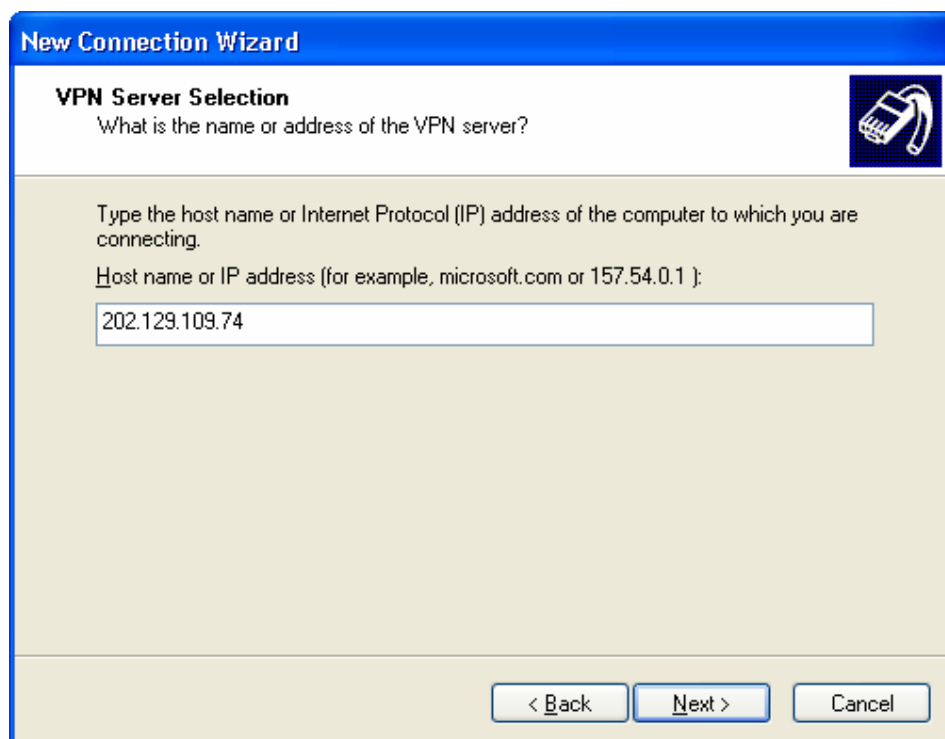
Windows can automatically dial the initial connection to the Internet or other public network, before establishing the virtual connection.

☒ Do not dial the initial connection.

☐ Automatically dial this initial connection:

< Back Next > Cancel

Next enter in the IP address of the VPN server.
You can find this under the status page of the DFL-600.



New Connection Wizard

VPN Server Selection
What is the name or address of the VPN server?

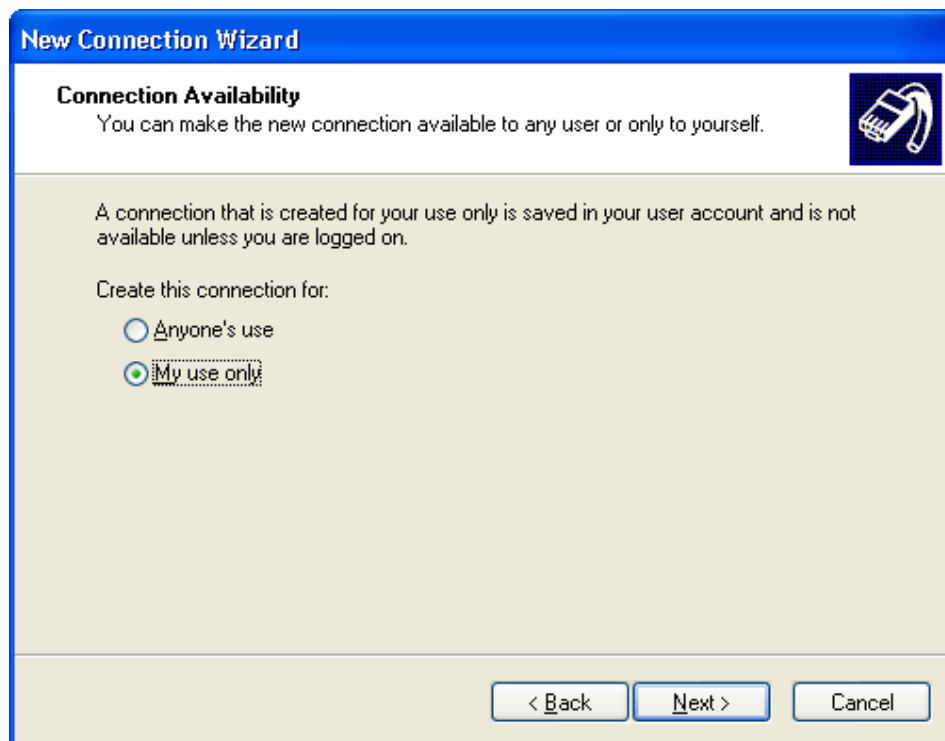
Type the host name or Internet Protocol (IP) address of the computer to which you are connecting.

Host name or IP address (for example, microsoft.com or 157.54.0.1):

202.129.109.74

< Back Next > Cancel

To make your VPN safer in the home environment click on **My use only**, If you want other people to use this connect click on **Anyone's use**.



New Connection Wizard

Connection Availability
You can make the new connection available to any user or only to yourself.

A connection that is created for your use only is saved in your user account and is not available unless you are logged on.

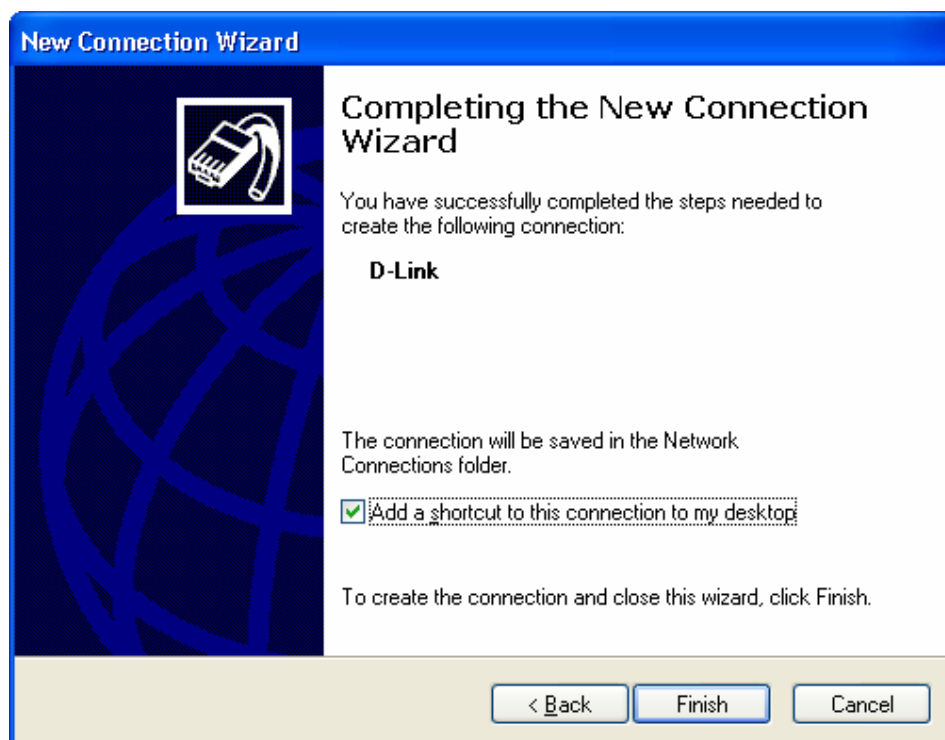
Create this connection for:

☐ Anyone's use

☒ My use only

< Back Next > Cancel

Tick the **Add a shortcut** button, this will make it easier to connect to the VPN.
Then click **Finish**.



New Connection Wizard

Completing the New Connection Wizard

You have successfully completed the steps needed to create the following connection:

D-Link

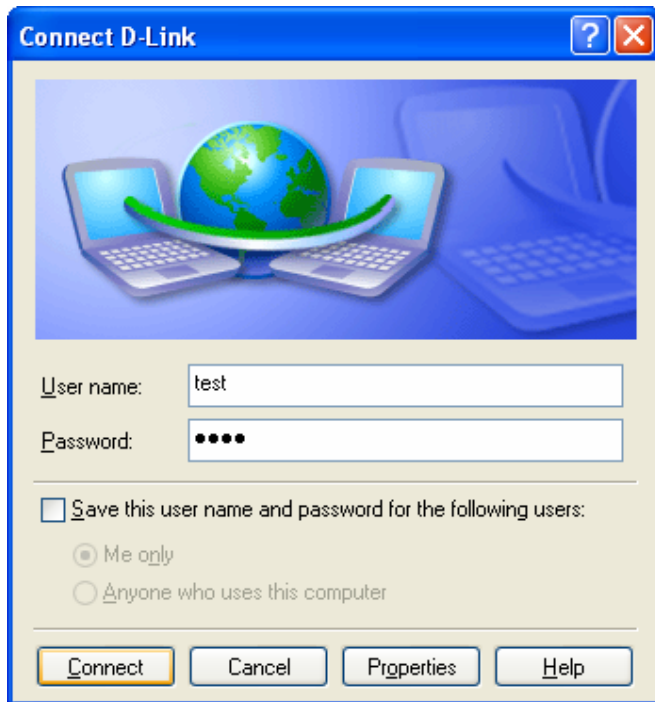
The connection will be saved in the Network Connections folder.

☒ Add a shortcut to this connection to my desktop

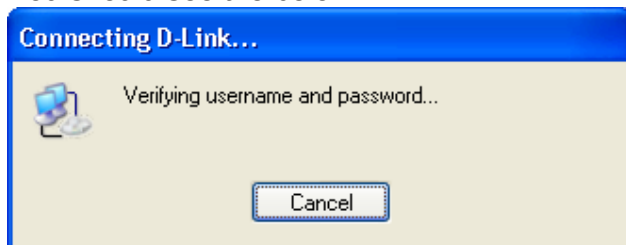
To create the connection and close this wizard, click Finish.

< Back Finish Cancel

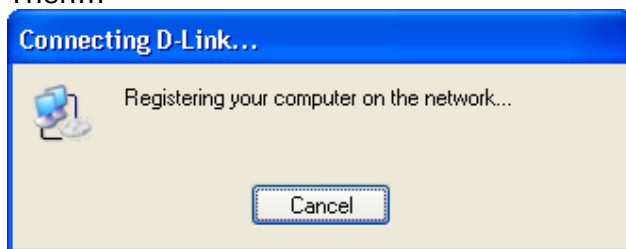
Enter in the User name and password that you entered into the PPTP page of the DFL-600, then click connect.



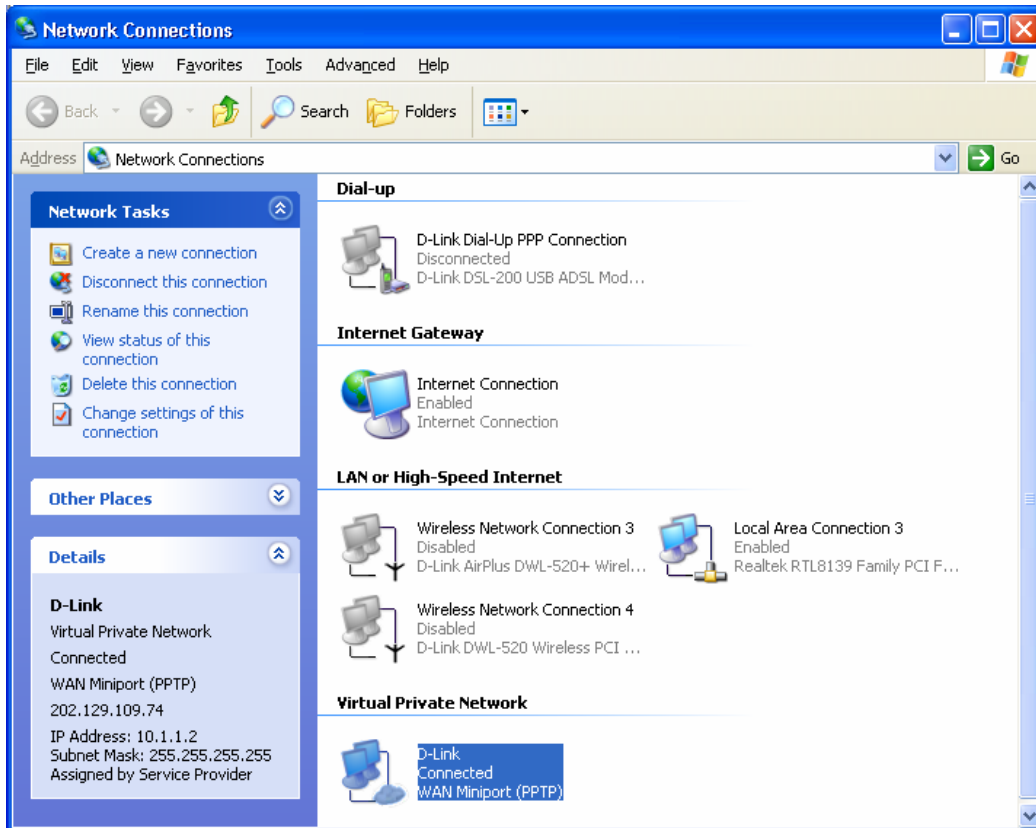
You should see the below.



Then...



Once its connect you should see something like the below.
Where the Virtual Private Network iron is now blue, and says connected.



If you selected to make an icon on the desk top you can use this to connect to the VPN as well.



Appendix 1.

How to test your VPN connection.

Make sure that computers on both locations can access the Internet.

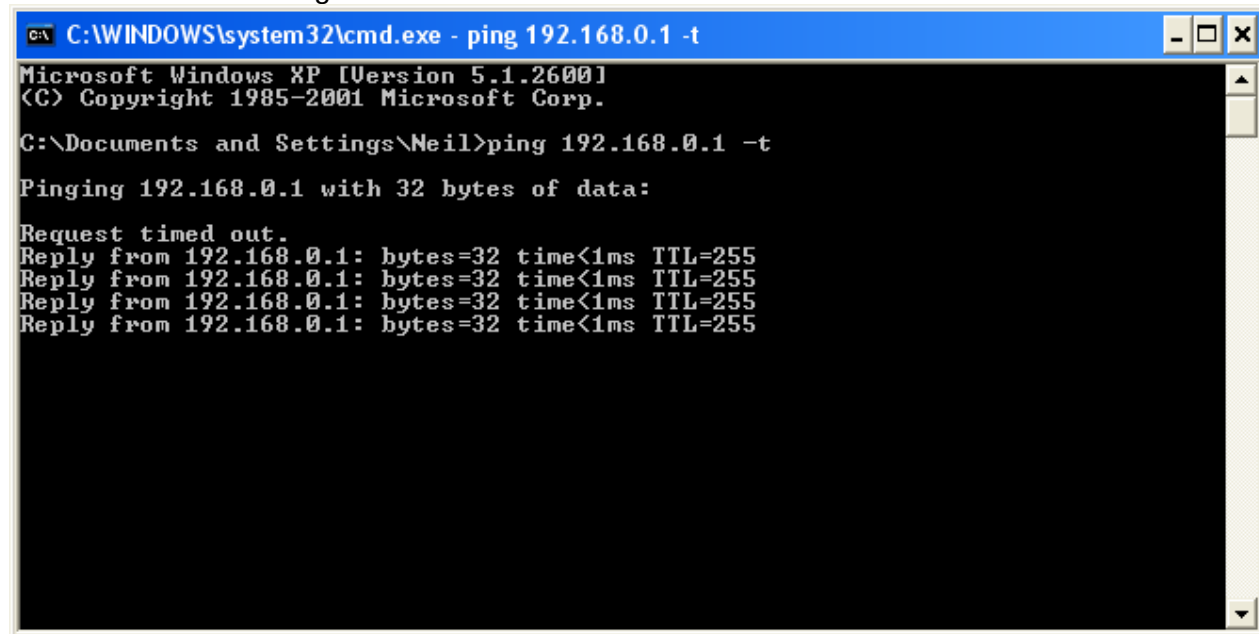
The make sure that you are on the XP's location with the PPTP connection.

The go to Start > Run, type *command* and click on OK.

If you type in the below then hit enter.

ping 192.168.0.1 -t (or the LAN IP address of the DFL-600)

You should see messages similar to the one below:



```
C:\WINDOWS\system32\cmd.exe - ping 192.168.0.1 -t
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Neil>ping 192.168.0.1 -t

Pinging 192.168.0.1 with 32 bytes of data:

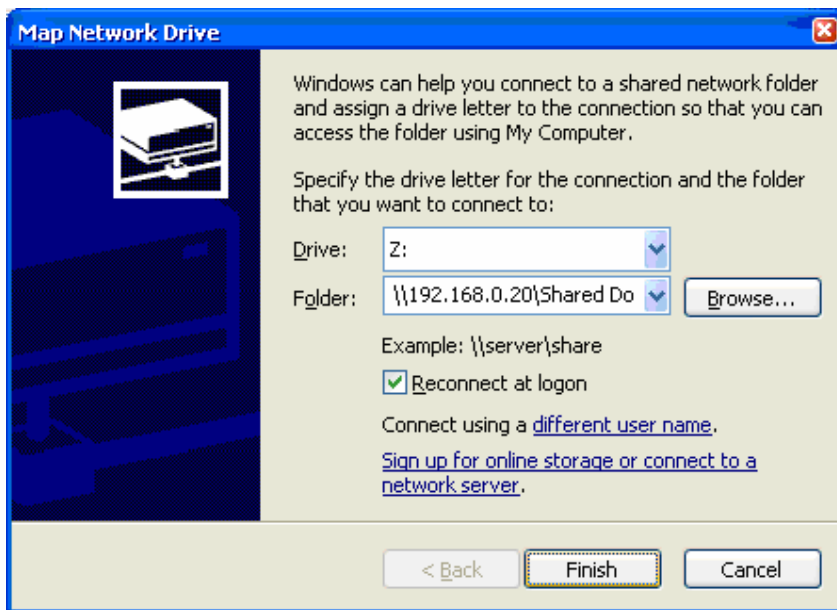
Request timed out.
Reply from 192.168.0.1: bytes=32 time<1ms TTL=255
Reply from 192.168.0.1: bytes=32 time<1ms TTL=255
Reply from 192.168.0.1: bytes=32 time<1ms TTL=255
Reply from 192.168.0.1: bytes=32 time<1ms TTL=255
```

If you see a message saying Reply from... that means that VPN tunnel has been established successfully and you can communicate with remote network via VPN.

Appendix 2

Connecting to remote computers/drives via VPN

You can map remote computers' drives by opening Windows Explorer and going to Tools > Map Network Drive (you need to specify the IP address of the computer on remote network and the name of the shared folder):



Alternatively you can do Search > Computers or People > Computer on Network > specify the IP address of the computer you are trying to connect to.

If you do not see computers in My Network Places or My Network Neighbourhood you may need to enable NetBIOS over TCP/IP in Windows. Or use the methods described above.

Note that firewall/antivirus software installed on your or remote computer may stop you from accessing shared folders.

Appendix 3

**Note to DSL-300, DSL-300+, DSL-302G modems users
And DSL-500, DSL-504, DSL-604+ users.**

If you are using **DSL-300** to connect your DFL-600 to the Internet please avoid using **192.168.1.x** addresses on your networks as it is the temporary subnet used by the modem.

If you are using **DSL-300+** to connect your DFL-600 to the Internet please avoid using **192.168.0.x** addresses on your networks as it is the temporary subnet used by the modem. Also note that DSL-300+ links to the MAC address of the device connected to it directly. So if you configured the modem while it was connected to your PC directly or to another router, you will need to reconfigure it while it is connected to your DI-804HV. Here are the steps:

1. Connect the DSL-300+ modem to the WAN port of your DFL-600.
2. Set WAN port on DFL-600 to "Dynamic IP" and set LAN port to subnet different from 192.168.0.x (e.g. 192.168.3.1)
3. Renew IP address on your computer so it will be on 192.168.3.x subnet and log into the DSL-300+ using your Internet browser: <http://192.168.0.1>
4. In the DSL-300+ interface select **Account Management**. Put a tick next to your account and click on Delete.
5. Select **Account Configuration** and reconfigure the modem according to your ISP requirements. Click on OK to save settings.

If you are using **DSL-500, DSL-504, DSL-604+** router to connect your DFL-600 to the Internet please avoid using **192.168.0.x** addresses on your networks as it is the default LAN subnet used by the routers. You may change it to a different subnet (e.g. 192.168.33.1) if you wish, under **Configuration > Ethernet IP**.

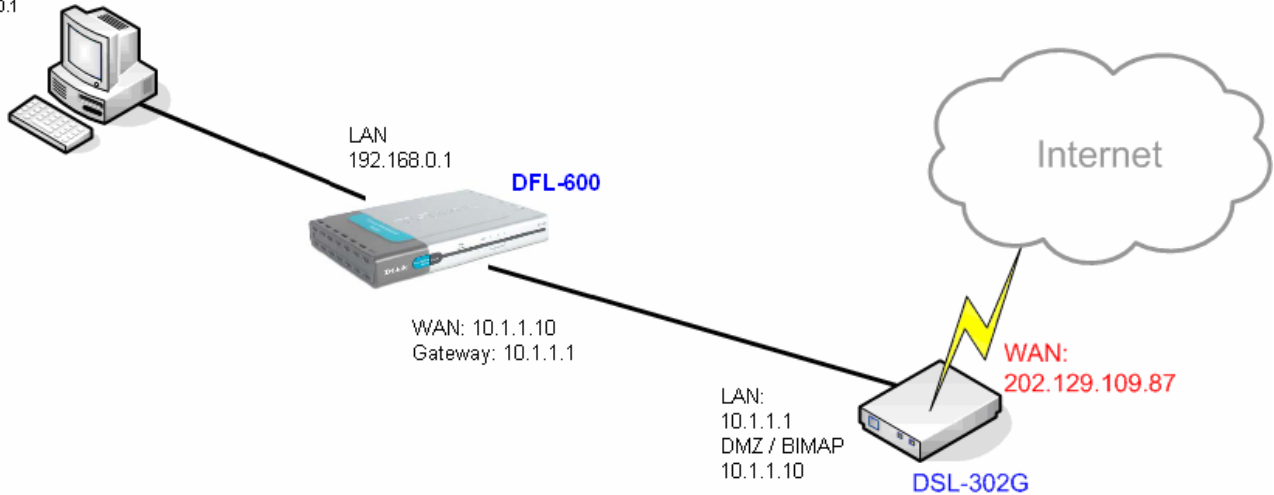
Note that you need to enable VPN pass-through on the router. Or go to **NAT Configuration** and enable **DMZ**: specify the IP address of the WAN port of DFL-600 there.

DFL-600 WAN port should be set with static IP from the same subnet as DSL-xxx LAN port. Default Gateway should be set as DSL-xxx LAN port IP address.

Please keep in mind that with DSL-xxx routers with NAT enabled your public IP address will be located on the WAN port of DSL-xxx router. WAN port of DFL-600 will have private IP address. When setting up **Remote Gateway** in VPN you will need to use public IPs on DSL-xxx routers' WAN ports, e.g. 202.129.109.87 (see example with DSL-302G below).

With **DSL-302G** the setup is similar. This modem uses **10.1.1.1** address on LAN.

WorkStation A:
192.168.0.10
Gateway:
192.168.0.1



In order to enable VPN traffic pass-through in this modem you need to do the following:
Log into the modem's WEB interface and select **WAN > NAT**. Under **NAT Options** select **NAT Rule Entry**. Click on **Add** button.
Under **Rule Flavor** select **BIMAP**. Set **Rule ID** as next number in the rules table (in our case it is 2). **IF Name** = **ALL**. **Local Address** will be the IP on the WAN port of your DFL-600 which is connected to this modem. **Global address** leave as 0.0.0.0:

NAT Rule - Add

NAT Rule Information				
Rule Flavor:	BIMAP ▼			
Rule ID:	2			
IF Name:	ALL ▼			
Local Address:	10	1	1	10
Global Address:	0	0	0	0
Submit Cancel Help				

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Then click on **Submit** to apply the settings.

When setting up **Remote Gateway** in **VPN** you will need to use public IP on DSL-302G's WAN port.