How to setup PPTP VPN connection
with DI-804HV or DI-808HV
using Windows PPTP client

Make sure your DI-804HV or DI-808HV is running firmware ver.1.40 August 12 or later. You can check firmware version under Status > Device Info:

To setup PPTP tunnel in the router go to Home > VPN. Make sure VPN option is ticked as Enabled. Click on Apply.

Click on PPTP Server Settings button.

Next to PPTP Server click on Enable option.
Enter Virtual IP of PPTP Server. This virtual IP should be different from your LAN subnet.
Under Authentication Protocol select MSCHAP and set MPPE Encryption Mode as Enabled.
Enter Tunnel Name and then User Name and Password for the remote client.

Click on Apply.
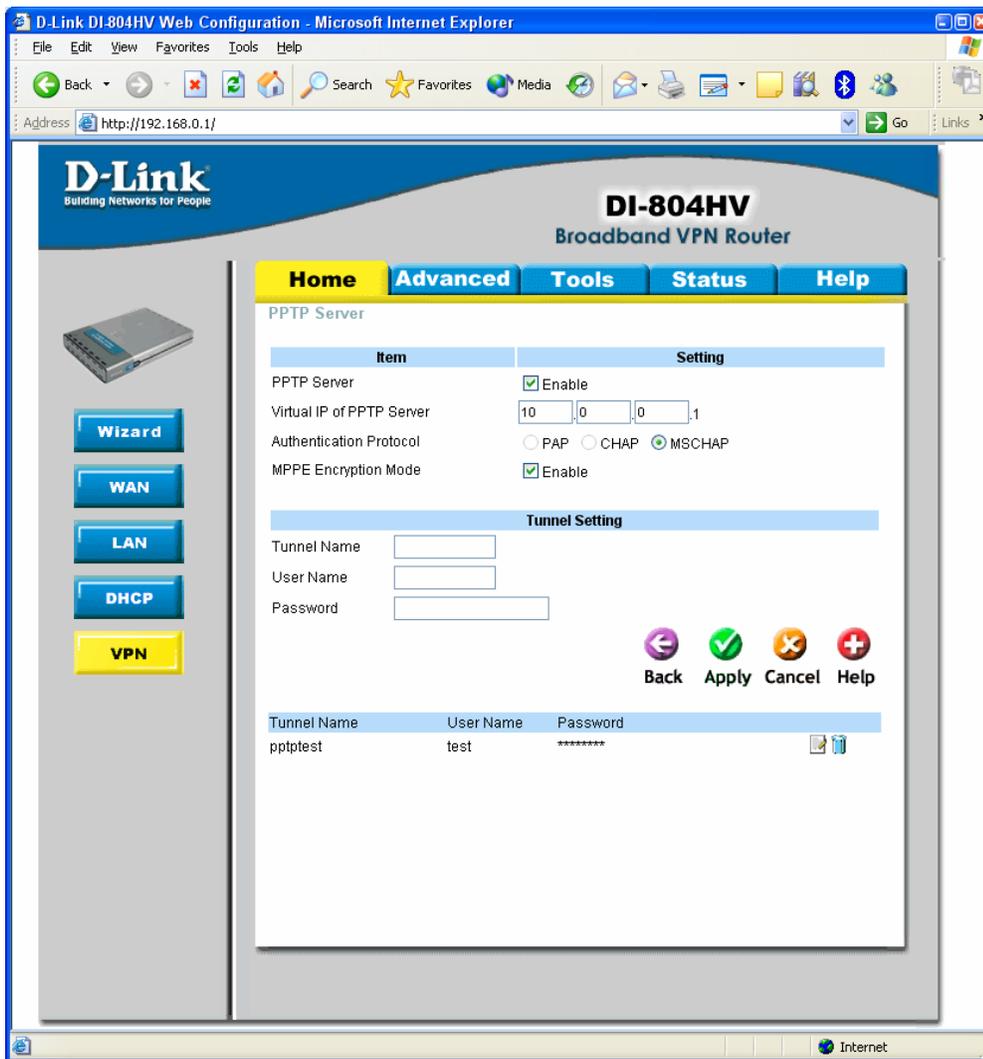
The router setup for PPTP connection is now complete.

To setup your remote client for PPTP connection you can use Windows built-in PPTP client. We will use Windows XP as an example.
Go to Start > Control Panel > Network Connections.
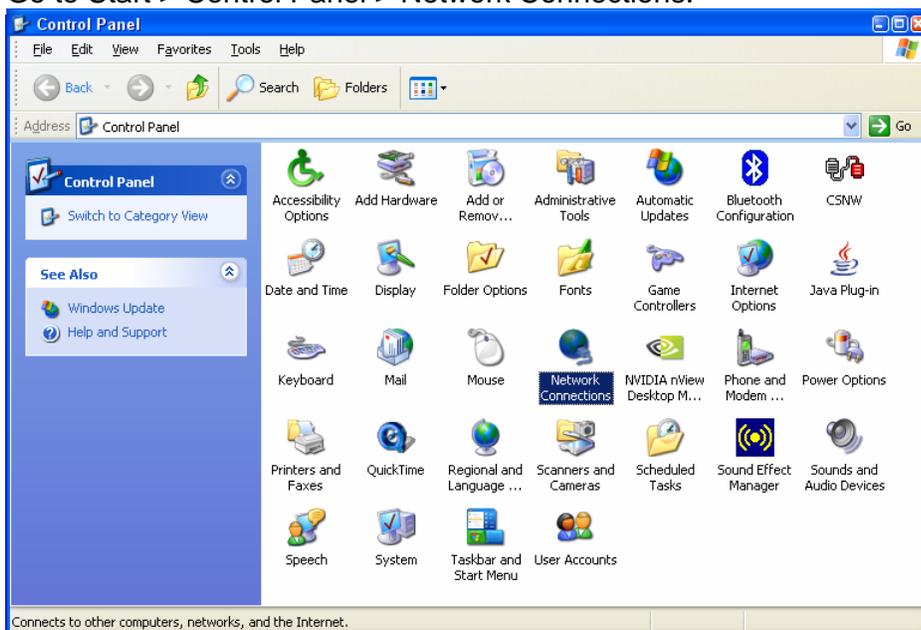
Click on Create New Connection:

Select "Connect to the network" option:

Select "Virtual Private Network connection":

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]

Give the connection a name:

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

My PPTP Connection

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 connection option":
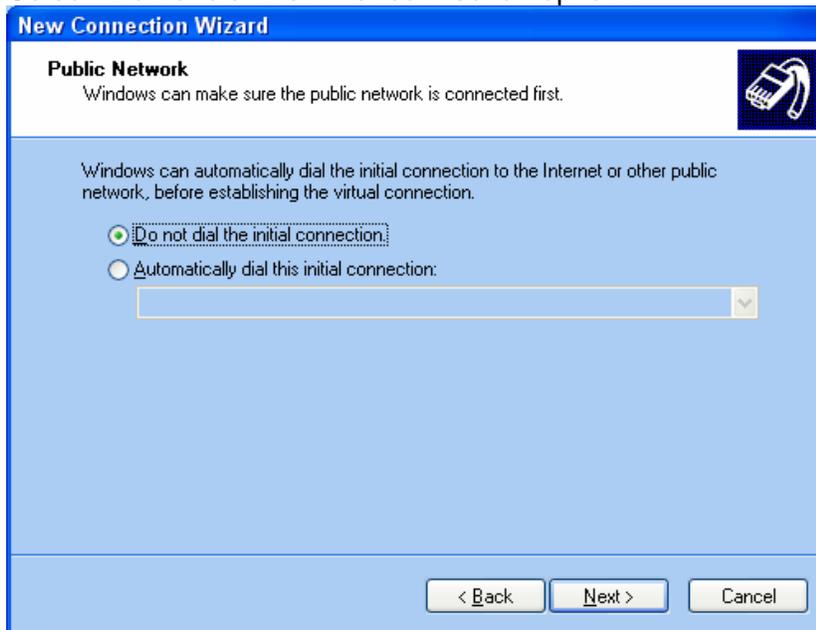
Enter the IP address that DI-804HV is getting from the ISP (it should be public IP address). If you have a router or a modem with NAT in front of DI-804HV, use the public IP address on the modem's WAN port:
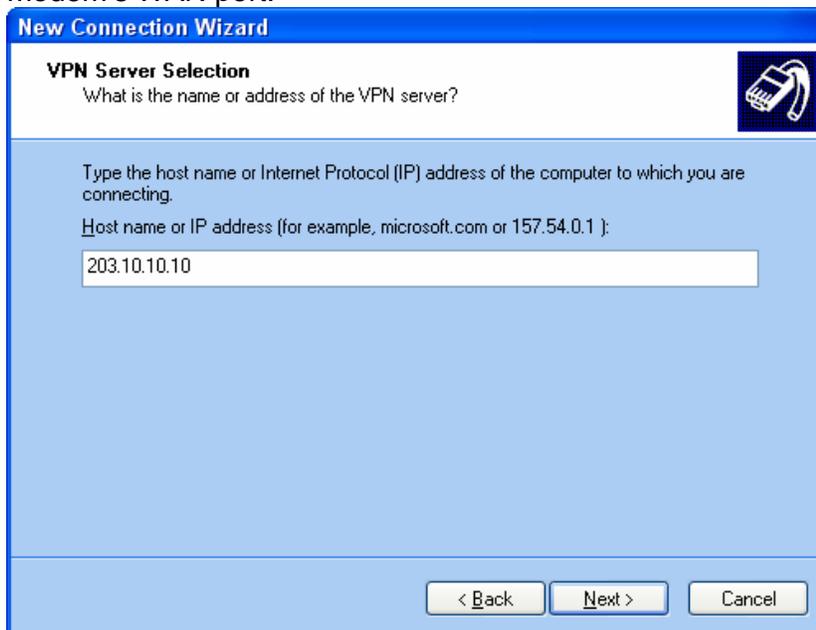
Continue with the Connection Wizard:

To establish a VPN connection: make sure you have access to the Internet. Make sure the modem or the router you are using to connect to the Internet supports VPN passthrough.
Double-click on the PPTP connection icon and enter the username and password as it was set in the DI-804HV router under PPTP Server Settings.

Click on Connect.
After verifying username and password your computer should establish a PPTP connection.

Appendix 1.
How to test your VPN conection.

After verifying username and password your computer should establish a PPTP connection with the router. To check the status of the connection: Go to Start > Control Panel > Network Connections > right-click on your PPTP connection icon and select Status. Under Details you can see your virtual IP:
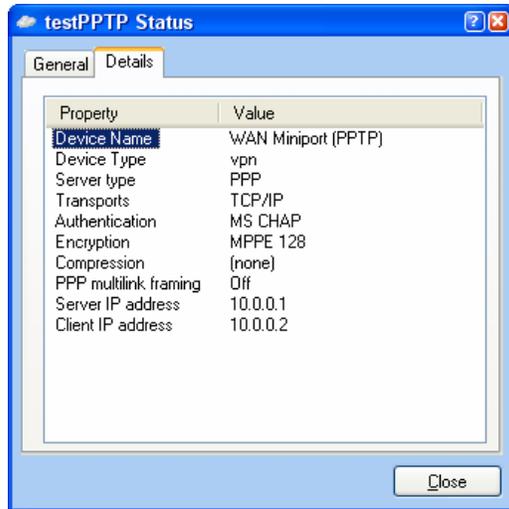
To test the VPN connectivity up you just need to try to access any IP address on the network at the remote location.

To do this in Windows go to Start > Run, type *command* and click on OK.

Ping the private IP address on remote network:
ping 192.168.0.1

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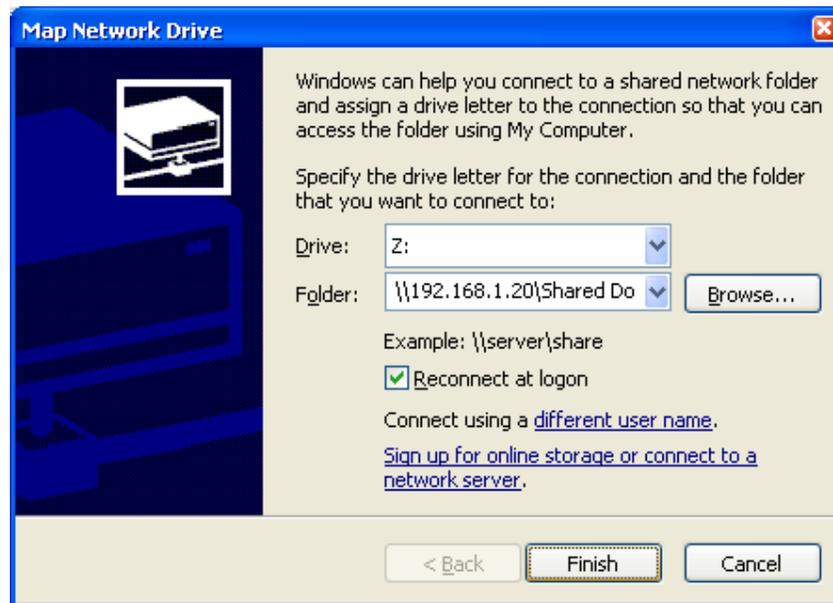
Alternatively you can do Search > Computers or People > Computer on Network > specify the IP address of the computer you are trying to connect to.

If you do not see computers in My Network Places or My Network Neighborhood 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 DI-804HV/DI-804V 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 DI-804HV/DI-804V 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 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/DI-804V. Here are the steps:

1. Connect the DSL-300+ modem to the WAN port of your DI-804HV.
2. Set WAN port on DI-804HV 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 DI-804HV/DI-804V to the Internet please avoid using **192.168.0.x** addresses on your networks as it is the 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 passthrough on the router. Or go to NAT Configuration and enable DMZ: specify the IP address of the WAN port of DI-804HV there.

DI-804HV 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 DI-804HV 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 (see example with DSL-302G below).
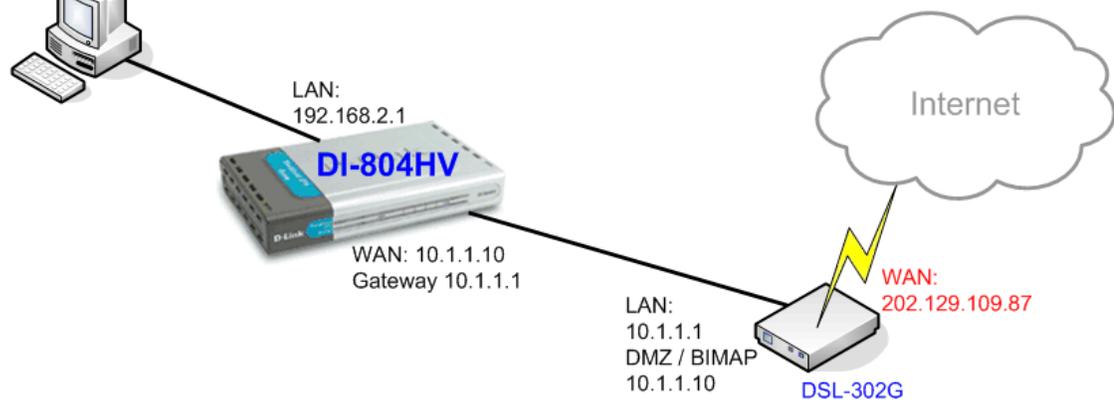
With **DSL-302G** the setup is similar. This modem uses **10.1.1.1** address on LAN.

In order to enable VPN traffic passthrough 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 DI-804HV which is connected to this modem. Global address leave as 0.0.0.0:

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.

~ End of Document ~