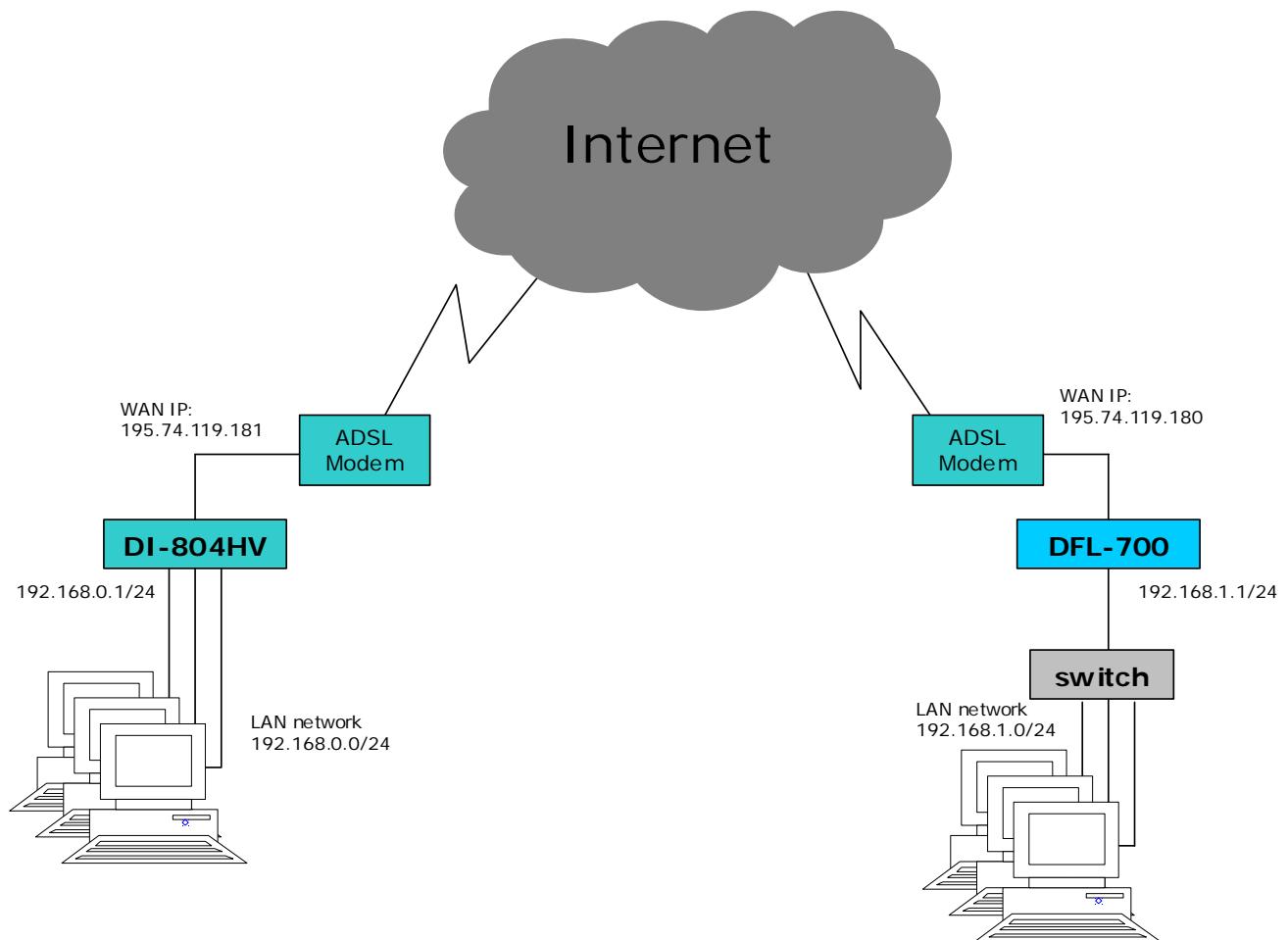


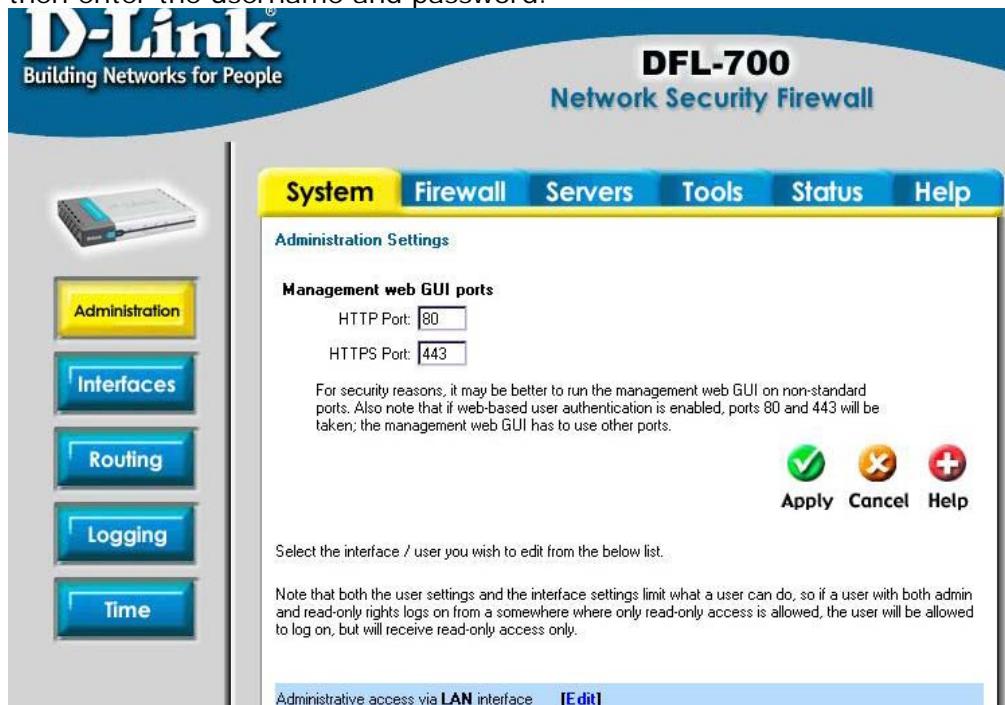
DFL-700 with DI-804HV IPsec VPN Configuration Guide

This configuration shows how to connect a DFL-700 to a DI-804HV with an IPsec tunnel. Please check the D-Link AUS FTP Site at <ftp://202.129.109.68> for updates on the firmware.

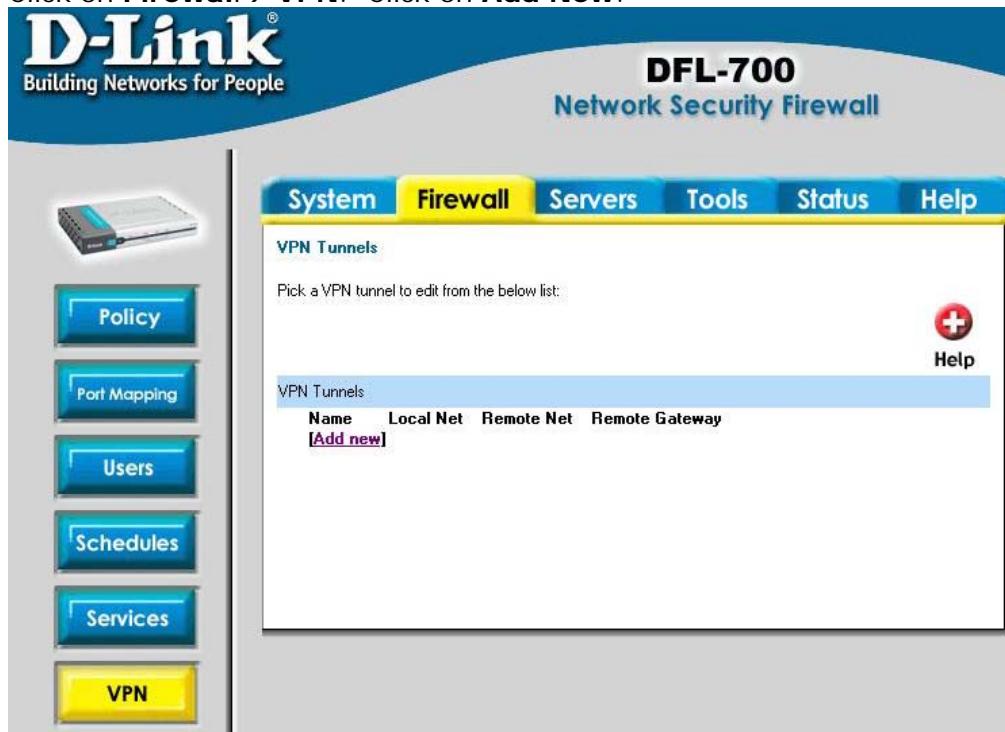


DFL-700 configuration

- 1) Log into the DFL-700 using its IP address (<https://192.168.1.1> in this example) and then enter the username and password.



- 2) Click on **Firewall** → **VPN**. Click on **Add New**.



- 3) Enter the details for the Tunnel.

Name: DI-804HV
 Local Net: 192.168.1.0/24
 Authentication: PSK
 Pre-shared key: dlinktest

LAN-to-LAN tunnel

Remote net: 192.168.0.0/24

Remote gateway: 195.74.119.181

The screenshot shows the 'VPN Tunnels' configuration page. On the left sidebar, the 'VPN' button is highlighted. The main area shows the following settings:

- Name:** DI-804HV
- Local Net:** 192.168.1.0/24
- Authentication:**
 - PSK - Pre-Shared Key** (selected): PSK: Retype PSK:
 - Certificate-based**: Local Identity: Admin - CN=00900B025D59, Certificates:
- Tunnel type:**
 - Roaming Users** (single-host VPN clients): IKE XAuth: Require user authentication via IKE XAuth to open tunnel
 - LAN-to-LAN tunnel** (selected): Remote Net: 192.168.0.0/24, Remote Gateway: 195.74.119.181. A note states: "The gateway can be a numerical IP address, DNS name, or range of IP addresses for roaming / NATed gateways." Proxy ARP: Publish remote network on all interfaces via Proxy ARP

Click on **Apply** when done.

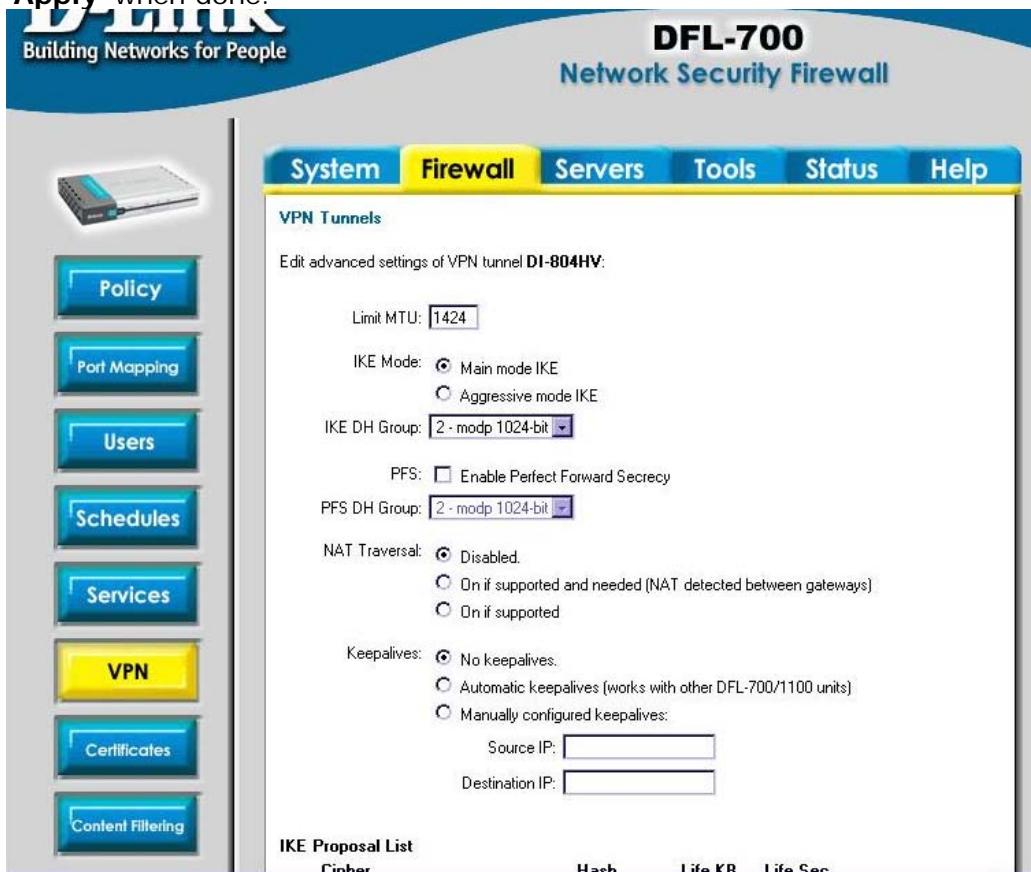
- 4) Click on **Edit** on the newly created **DI-804V** profile

The screenshot shows the 'VPN Tunnels' list page. The 'Firewall' tab is selected. The list displays one entry:

Name	Local Net	Remote Net	Remote Gateway	Action
DI-804HV	192.168.1.0/24	192.168.0.0/24	195.74.119.181	[Edit]

A red plus sign icon with the text 'Add new' is located in the top right corner of the list area.

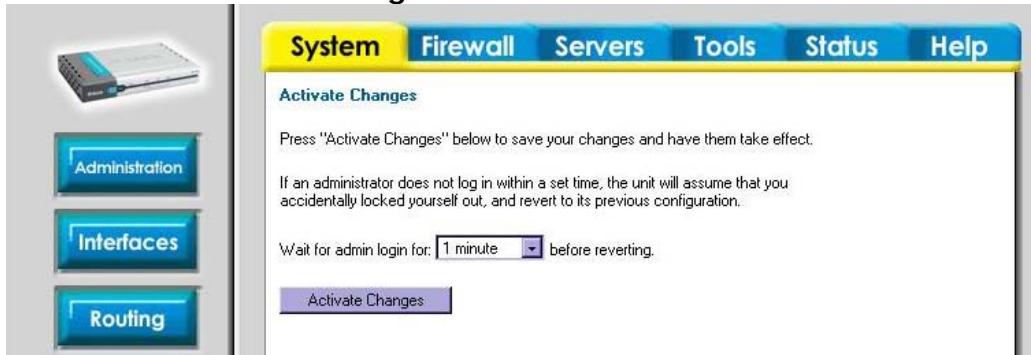
- 5) Click on **Advanced**. Set IKE mode to 'Main Mode' (default), IKE DH Group '2 – modp 1024-bit'(default). Leave PFS unchecked. Set NAT traversal to 'Disabled'. Click on 'Apply' when done.



- 6) Click on '**Activate**' on the bottom left hand corner of the screen.

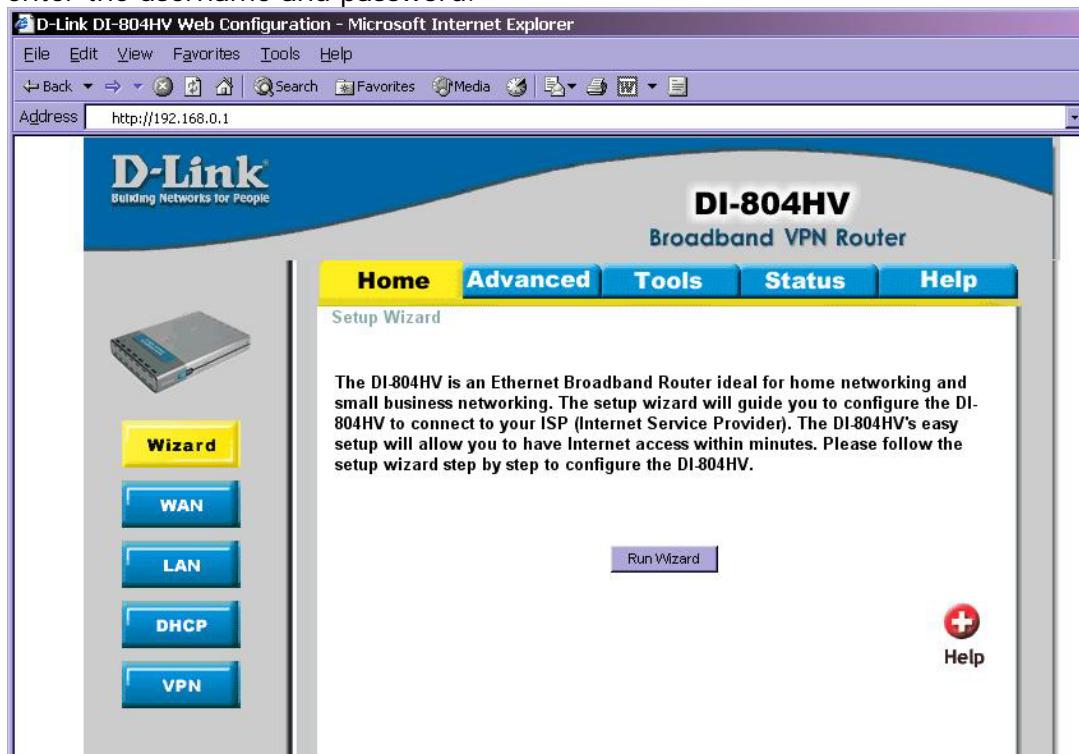


- 7) Click on the '**Activate Changes**' button.

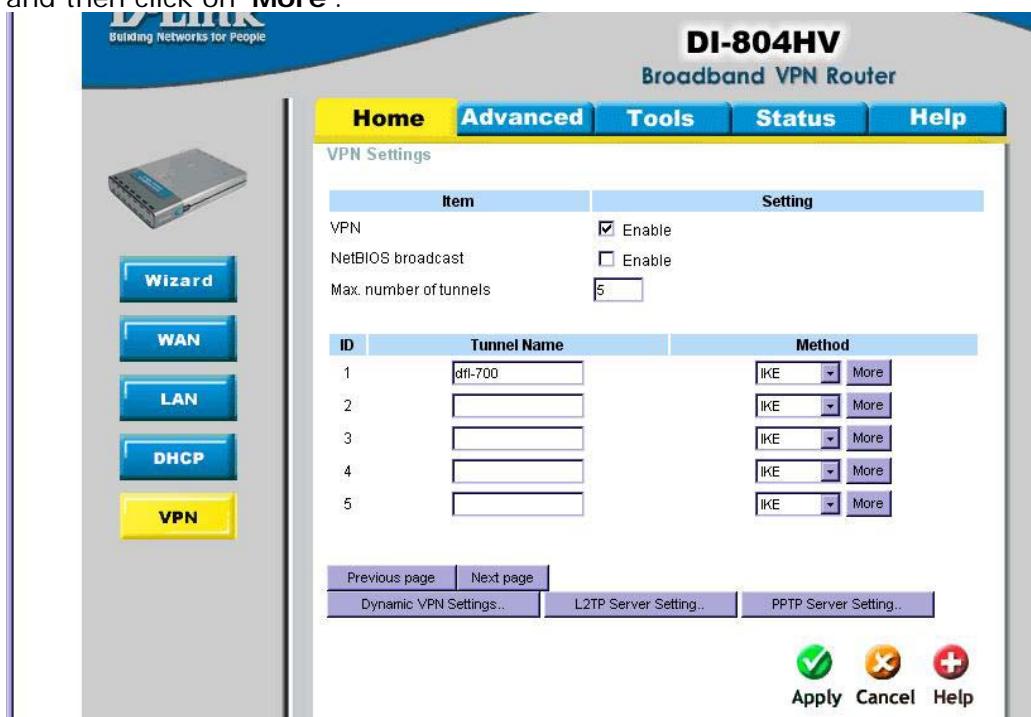


DI-804HV configuration

- 1) Log on to the DI-804V using its IP address (<http://192.168.0.1> in this example) and enter the username and password.



- 2) Click on '**VPN**' on the left hand side. Under VPN Settings, check the enable box for VPN. Set the Max. number of tunnels to 5 for example. In ID 1, enter the Tunnel Name, 'dfl-700'. Click on '**Apply**' then '**Continue**'. In ID 1, set the method to '**IKE**' and then click on '**More**'.

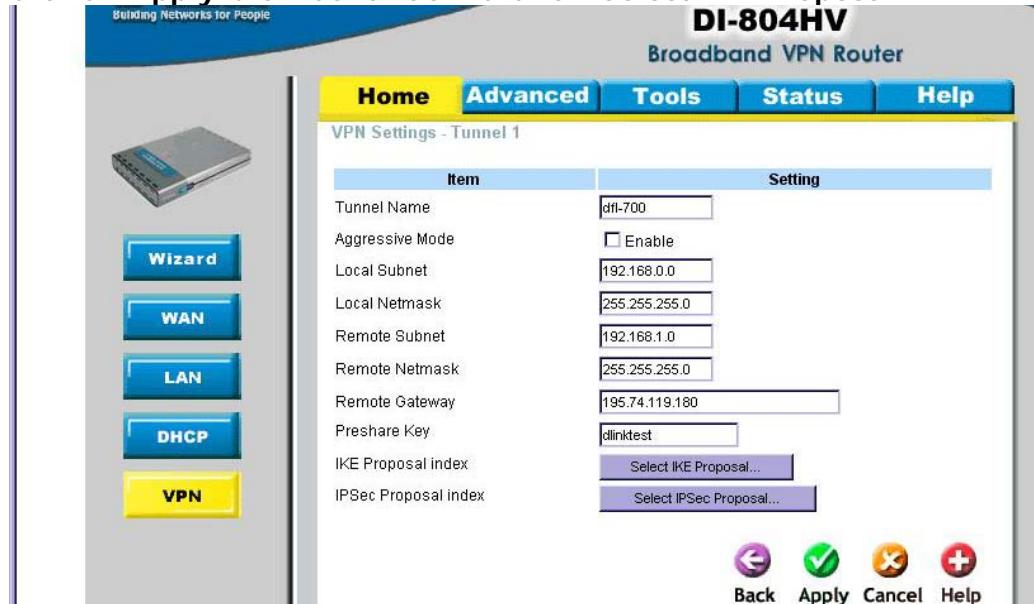


- 3) Enter the details for the tunnel.

Local Subnet : 192.168.0.0

Local netmask: 255.255.255.0
 Remote Subnet: 192.168.1.0
 Remote netmask: 255.255.255.0
 Remote Gateway: 195.74.119.180
 Preshare key: dlinktest

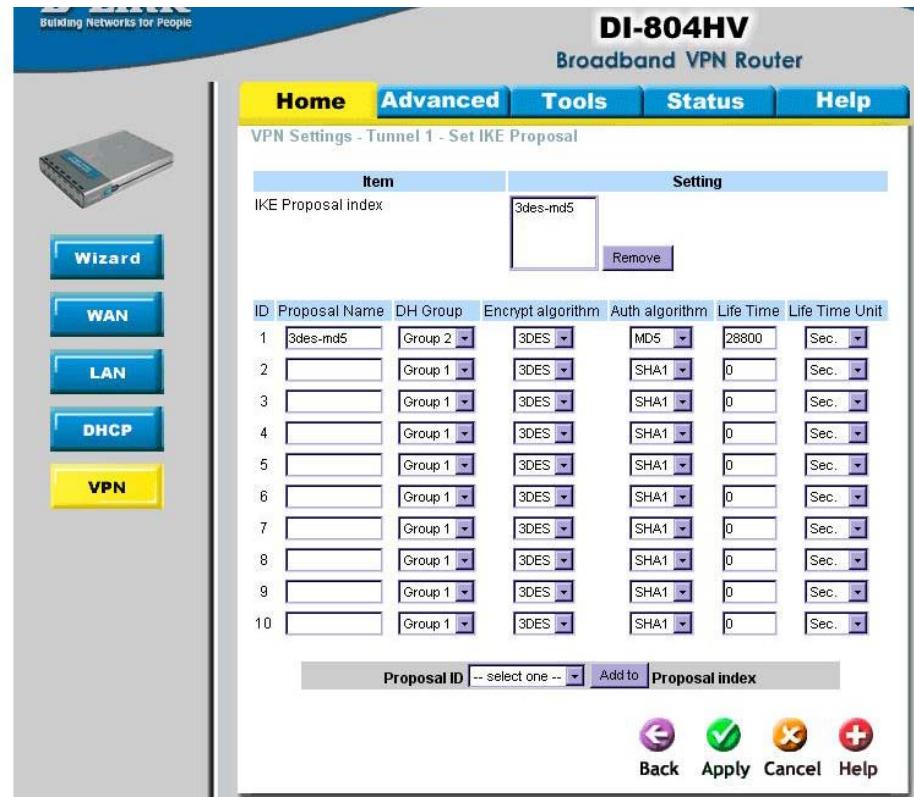
Click on '**Apply**' then '**Continue**'. Click on '**Select IKE Proposal**'.



- 4) In the Set IKE Proposal screen, set ID 1 to the following settings

Proposal Name: 3des-md5
 DH-Group: Group2
 Encrypt algorithm: 3DES
 Auth algorithm: MD5
 Lifetime: 28800
 Life Time Unit: Sec.

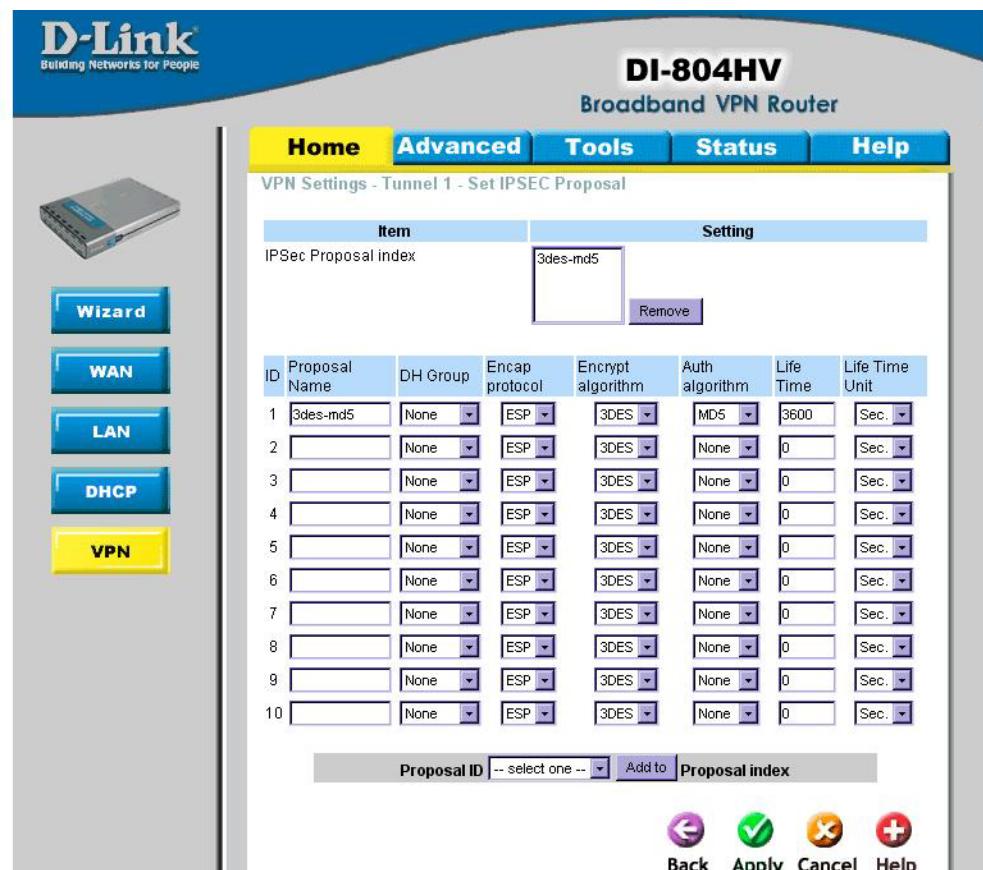
In 'Proposal ID', select 1 then click on '**Add to**'. Click on '**Apply**' then '**Continue**'.



- 5) Click on 'Back'. Click on 'Select IPsec Proposal'.

Proposal Name: 3des-md5
 DH-Group: None
 Encap protocol: ESP
 Encrypt algorithm: 3DES
 Auth algorithm: MD5
 Lifetime: 3600
 Life Time Unit: Sec.

In 'Proposal ID', select 1 then click on 'Add to'. Click on 'Apply' then 'Continue'.



Testing the connection

From the DFL-700 side, you can initiate a ping to a machine on the LAN side of the DI-804HV (i.e. 192.168.0.10). The tunnel should then be generated and then you should get a response as shown below.

```
Command Prompt - ping 192.168.0.10 -t

Reply from 192.168.0.10: bytes=32 time=35ms TTL=128
Reply from 192.168.0.10: bytes=32 time=36ms TTL=128
Reply from 192.168.0.10: bytes=32 time=35ms TTL=128
Reply from 192.168.0.10: bytes=32 time=37ms TTL=128
Reply from 192.168.0.10: bytes=32 time=33ms TTL=128
Reply from 192.168.0.10: bytes=32 time=37ms TTL=128
Reply from 192.168.0.10: bytes=32 time=36ms TTL=128
Reply from 192.168.0.10: bytes=32 time=36ms TTL=128
```