

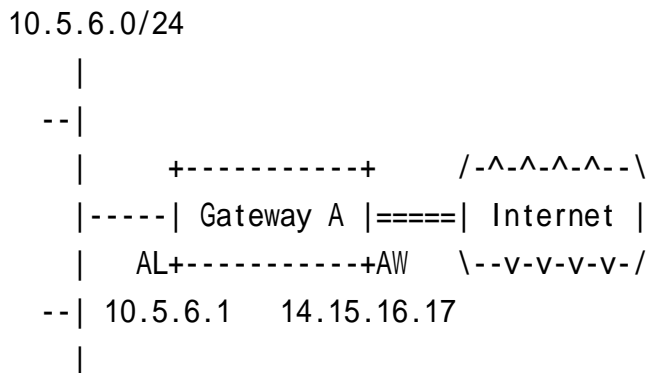
Profile for IPSec Interoperability of D-Link DI-804HV, DI-808HV, or DI-824VUP+

1. Purpose

This document describes how to finish VPN configuration on three hardware VPN models of D-Link—DI-804HV, DI-808HV, and DI-824VUP+. The VPN options of these three models are all the same.

2. Scenario

In the document, we will use the scenario (Gateway-to-gateway with preshared secrets) that is developed by the VPN Consortium for our example, and you can also get it from <http://www.vpnc.org/InteropProfiles/Interop-01.html>. The network architecture is showed below:



Note. You can choose DI-804HV, DI-808HV, or DI-824VUP+ as Gateway A or Gateway B.

3. Setup

You can configure DI-804HV, DI-808HV, and DI-824VUP+ by web management interface. Type 192.168.0.1 (The LAN IP is 192.168.0.1 by default) in the browser, and then input user name: **admin** (there is no password by default) to pass authentication of web management interface. Then finish the configurations as showed below on Gateway A and Gateway B.

Configurations of Gateway A

- Model: DI-804HV (DI-808HV, or DI-824VUP+)
- Firmware version: v1.40
(You can download the latest firmware on [D-Link's website.](#))
- WAN IP Address: 14.15.16.17 (Static IP)
- LAN IP Address: 10.5.6.1 (Subnet Mask: 255.255.255.0)
- VPN Configurations:
 - Enable VPN function on Gateway A.
 - Tunnel Name: toGatewayB
 - VPN Method: IKE (Main mode)
 - Local Subnet: 10.5.6.0
 - Local Netmask: 255.255.255.0
 - Remote Subnet: 172.23.9.0
 - Remote Netmask: 255.255.255.0
 - Remote Gateway: 22.23.24.25
 - Pre-share Key: hr5xb8416aa9r6
 - IKE Proposal
(Please remember to add the correct proposal ID into the list of IKE Proposal Index when you finish inputting the following information.)
 - ✓ Proposal Name: toGatewayB
 - ✓ DH Group: Group 2
 - ✓ Encryption Algorithm: 3DES
 - ✓ Authentication Algorithm: SHA1
 - ✓ Life Time: 28800
 - ✓ Life Time Unit: Second
 - IPSec Proposal
(Please remember to add the correct proposal ID into the list of IKE Proposal Index when you finish inputting the following information.)
 - ✓ Proposal Name: toGatewayB

- ✓ DH Group: Group 2
- ✓ Encapsulation Protocol: ESP
- ✓ Encryption Algorithm: 3DES
- ✓ Authentication Algorithm: SHA1
- ✓ Life Time: 3600
- ✓ Life Time Unit: Second

4. Verify the VPN connection

Before you start to establish VPN connection between Gateway A and Gateway B, please make sure the Internet connection between Gateway A and Gateway B is workable. You can use “Ping Test” tool on Gateway A (or Gateway B), and input the IP address of Gateway B (or Gateway A) to see if there is any response from its peer device.

Connect a PC (called PC_A) to the LAN port of Gateway A, and connect another PC (called PC_B) to the LAN port of Gateway B. Start to “Ping” PC_B on PC_A, then Gateway A will start to establish IPsec connection with Gateway B. If you can get “Ping” responses from PC_B on PC_A, then it means the tunnel has been established successfully. You can also check the “VPN Status” page with web management interface to verify the status of VPN connections.

The screenshot shows the web management interface for a D-Link DI-804HV Broadband VPN Router. The 'Status' tab is selected, and the 'VPN Status' page is displayed. The page includes a 'Refresh' button and a 'VPN setting...' button. A table shows the following VPN connection details:

Name	Remote Network IP Address/ Subnet Mask/ Gateway	Local Network IP Address/ Subnet Mask	Type	State	Life Time	Drop
toGatewayB	172.23.9.0/ 255.255.255.0/ 22.23.24.25	10.5.6.0/ 255.255.255.0	ESP tunnel	IKE established	3590	Drop

Figure 1: VPN status of Gateway A after IPSec connection has been established.

The screenshot shows the web interface of a D-Link DI-804HV Broadband VPN Router. The 'Status' tab is selected, displaying the 'VPN Status' section. The status is 'IKE established' with a life time of 3580. The table below provides details for the VPN connection named 'toGatewayA'.

Name	Remote Network	Local Network	Type	State	Life Time	Drop
	IP Address/ Subnet Mask/ Gateway	IP Address/ Subnet Mask				
toGatewayA	10.5.6.0/ 255.255.255.0/ 14.15.16.17	172.23.9.0/ 255.255.255.0	ESP tunnel	IKE established	3580	Drop

Figure 2: VPN status of Gateway B after IPSec connection has been established.