

LevelOne WBR-3407 VPN router Configuration

(Static IP)

Information:

WBR-3407A VPN (Router A)

WAN IP: 61.31.189.162

LAN IP: 192.168.1.1

LAN IP subnet mask: 255.255.255.0

WBR-3407A VPN (Router B)

WAN IP: 61.59.223.208

LAN IP: 192.168.0.1

LAN IP subnet mask: 255.255.255.0

Setup:

Basic concept: Both WBR-3407A needs to configure remote WAN IP, remote LAN IP, local LAN IP and identical IKE and SA parameters.

1 Advanced \ VPN



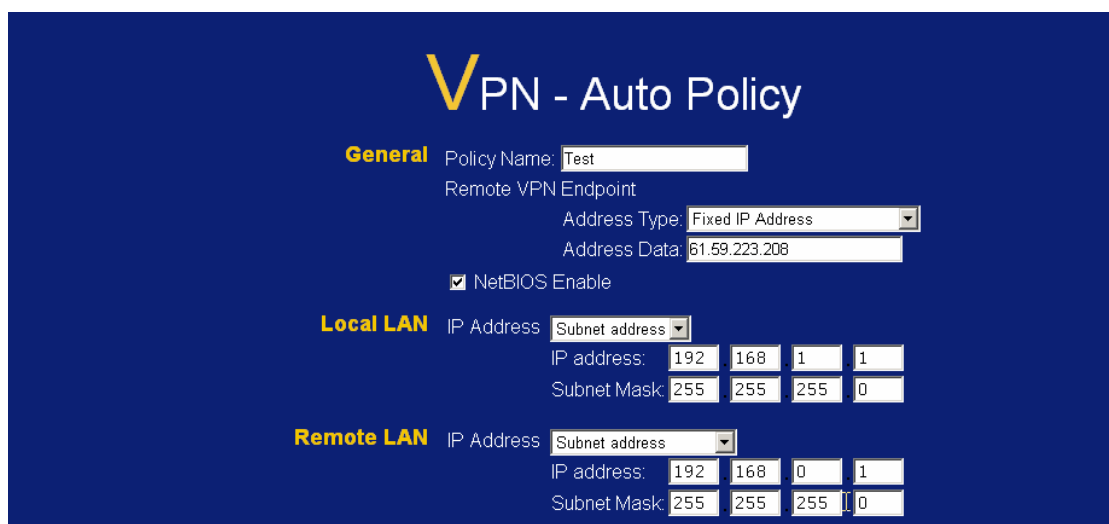
The screenshot displays the LevelOne router configuration web interface. On the left is a navigation sidebar with the LevelOne logo and links for Setup Wizard, LAN, Wireless, Password, Mode, Status, Advanced, Log Out, Restart, and Help. The main content area has a dark blue background with a large yellow 'A' logo and the word 'Advanced'. A list of configuration categories is shown, with 'VPN' highlighted by a mouse cursor. The categories and their descriptions are:

- Internet**: DMZ, URL Filter
- Dynamic DNS**: Use with "Virtual Servers" to allow Internet users to connect to your Servers using a URL instead of an IP address.
- Firewall Rules**: Create and manage Firewall Rules.
- Firewall Services**: Modify the list of Services which are available when creating Firewall Rules.
- Options**: MTU size, UPnP.
- Schedule**: Define the schedule used in URL filter and Firewall Rules.
- Virtual Servers**: Allow Internet users to access Servers on your LAN.
- VPN**: View, create and deleted VPN Policies.
- Administration**:
 - PC Database**: View and modify the list of PCs.
 - Config File**: Backup or restore the configuration file for the Wireless Router.
 - Logs**: Set system log options, view all logs.
 - E-mail**: Set E-Mailing of log files and alerts
 - Diagnostics**: Ping, DNS Lookup.

2 Click on "Add Auto Policy".



- 3 Enter the below information:
 - 3.1 Policy Name : Test
 - 3.2 Remote VPN Endpoint : Fixed IP address 61.59.223.208 (Router B WAN IP)
 - 3.3 Local LAN IP address: Subnet Address 192.168.1.1 (Router A LAN IP)
 - 3.4 Subnet mask: 255.255.255.0 (Router A Subnet mask)
 - 3.5 Remote LAN IP address: Subnet Address 192.168.0.1 (Router B LAN IP)
 - 3.6 Subnet mask: 255.255.255.0 (Router B Subnet mask)



- 4 Configure IKE and SA parameter as below. (Both Router need the same configuration)

IKE

Direction: Initiator and Responder

Exchange Mode: Main Mode

Diffie-Hellman (DH) Group: Group 1 (768 Bit)

Local Identity Type: WAN IP Address

Data: n/a

Remote Identity Type: IP Address

Data: n/a

SA Parameters

Encryption: 3DES

Authentication: MD5

Pre-shared Key: 11111

SA Life Time: 28800 (Seconds)

Enable PFS (Perfect Forward Security)

Back Save Cancel Help

5 Finish

VPN Policies

#	Enable	Name	Endpoint	Type	Local LAN	Remote LAN	ESP
1	<input checked="" type="checkbox"/>	Test	61.59.223.208	Auto	192.168.1.1 / 255.255.255.0	192.168.0.1 / 255.255.255.0	3DES

Save Edit Delete

Add Auto Policy Add Manual Policy VPN Status Help

6 For router B Enter the information below:

- 6.1 Policy Name : Test
- 6.2 Remote VPN Endpoint : Fixed IP address 61.31.189.162 (Router A WAN IP)
- 6.3 Local LAN IP address: Subnet Address 192.168.0.1 (Router B LAN IP)
- 6.4 Subnet mask: 255.255.255.0 (Router B Subnet mask)
- 6.5 Remote LAN IP address: Subnet Address 192.168.1.1 (Router A LAN IP)

6.6 Subnet mask: 255.255.255.0 (Router A Subnet mask)

VPN - Auto Policy

General Policy Name:
Remote VPN Endpoint
Address Type:
Address Data:
 NetBIOS Enable

Local LAN IP Address:
IP address:
Subnet Mask:

Remote LAN IP Address:
IP address:
Subnet Mask:

7 Configure IKE and SA parameter as below. (Both Router need the same configuration)

IKE Direction:
Exchange Mode:
Diffie-Hellman (DH) Group:
Local Identity Type:
Data:
Remote Identity Type:
Data:

SA Parameters Encryption:
Authentication:
Pre-shared Key:
SA Life Time: (Seconds)
 Enable PFS (Perfect Forward Security)

8 TEST, 192.168.0.7 is a computer in 192.168.0.0 subnet. We use ping command on computer at 192.168.1.2

```
C:\WINDOWS\system32\cmd.exe - PING 192.168.0.7 -t
Reply from 192.168.0.7: bytes=32 time=84ms TTL=126
Reply from 192.168.0.7: bytes=32 time=82ms TTL=126
Reply from 192.168.0.7: bytes=32 time=82ms TTL=126
Reply from 192.168.0.7: bytes=32 time=81ms TTL=126
Reply from 192.168.0.7: bytes=32 time=82ms TTL=126
Reply from 192.168.0.7: bytes=32 time=82ms TTL=126
Reply from 192.168.0.7: bytes=32 time=82ms TTL=126
Reply from 192.168.0.7: bytes=32 time=81ms TTL=126
Reply from 192.168.0.7: bytes=32 time=81ms TTL=126
Reply from 192.168.0.7: bytes=32 time=81ms TTL=126
Reply from 192.168.0.7: bytes=32 time=82ms TTL=126
Reply from 192.168.0.7: bytes=32 time=81ms TTL=126
Reply from 192.168.0.7: bytes=32 time=81ms TTL=126
Reply from 192.168.0.7: bytes=32 time=82ms TTL=126
Reply from 192.168.0.7: bytes=32 time=82ms TTL=126
Reply from 192.168.0.7: bytes=32 time=82ms TTL=126
Reply from 192.168.0.7: bytes=32 time=81ms TTL=126
Reply from 192.168.0.7: bytes=32 time=81ms TTL=126
Reply from 192.168.0.7: bytes=32 time=82ms TTL=126
Reply from 192.168.0.7: bytes=32 time=82ms TTL=126
Reply from 192.168.0.7: bytes=32 time=82ms TTL=126
Reply from 192.168.0.7: bytes=32 time=81ms TTL=126
Reply from 192.168.0.7: bytes=32 time=82ms TTL=126
```