



Configuring Aggressive Mode  
Site to Site VPN when a Site has  
Dynamic WAN Public IP address

**KNOWLEDGE  
DATABASE**

## Configuring Aggressive Mode Site to Site VPN when a Site has Dynamic WAN Public IP address

Type – **Network**,  
Network – **10.10.10.0**,  
Netmask – **255.255.255.0**

- Click **OK** when finished.

### Step 2: Configuring a VPN Policy:

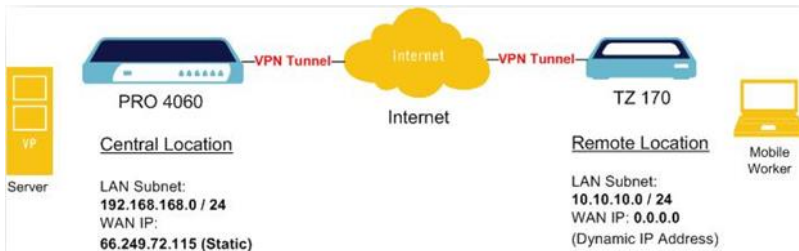
- Click on **Manage | Connectivity | VPN | Base Settings**
- Check the box "**Enable VPN**" under Global VPN Settings.
- Click on the "**Add**" button under VPN Policies section. The VPN Policy window pops up.

Click the **General** tab

- Select the Authentication method as "**IKE Using Preshared Secret**"
- Name: **New York Aggressive Mode VPN**
- IPsec Primary Gateway Name or Address: **0.0.0.0**

**Note:** Since the WAN IP address changes frequently, it is recommended to use the 0.0.0.0 IP address as the Primary Gateway.

- IPsec Secondary Gateway Name or Address: **0.0.0.0**
- Shared Secret: **SonicWall** (The Shared Secret would be the same at both SonicWall's. You can choose any Secret Key, but it should be entered sam on both sites)
- Local IKE ID: SonicWall Identifier - **Chicago** (This could be any string except it has to match the remote location VPN's Peer IKE ID SonicWall Identifier)
- Peer IKE ID: SonicWall Identifier - **newyork** (This could be any string except it has to match



### Configuring a Site to Site VPN on the central location (Static WAN IP address)

#### Central location network configuration:

- LAN Subnet: **192.168.168.0**
- Subnet Mask: **255.255.255.0**
- WAN IP: **66.249.72.115**
- Local IKE ID SonicWall Identifier: **Chicago** (This could be any string except it has to match the remote location VPN's Peer IKE ID SonicWall Identifier)

**NOTE: The IP Address can be dynamic but it must always be Public.**

This solution explains the configuration of a Site to Site VPN on SonicWall appliances when a site has dynamic WAN IP address.

The VPN policy is setup using **Aggressive Mode**.

#### **Network Setup:**

##### **Step 1: Creating Address Object for remote Site:**

- Login to the central location SonicWall appliance
- Navigate to **Manage | Policies | Objects | AddressObjects** page.
- Click on **Add** button, enter the following settings.

Name – **newyork vpn**,  
Zone – **VPN**,

the remote location VPN's **Local IKE ID SonicWall Identifier**)

- Click **OK** when finished

Click the **Network** tab

∅ Local Networks

Select **Choose local network from list**, and select the Address Object – **X0 Subnet** (LAN subnet)

∅ Destination Networks

Select **Choose destination network from list**, and select the Address Object – **newyork vpn**

Click the **Proposals** tab

IKE (Phase 1) Proposal

Exchange: **Aggressive Mode**  
 DH Group: **Group 2**  
 Encryption: **3DES**  
 Authentication: **SHA1**  
 Life Time (seconds): **28800**

IPsec (Phase 2) Proposal

Protocol: **ESP**  
 Encryption: **3DES**  
 Authentication: **SHA1**

Enable Perfect Forward  
 Secrecy(not checked)

DH Group: **Group 2**  
 Life Time (seconds): **28800**

Click the **Advanced** tab

Ensure that the **VPN Policy bound to: Zone WAN**

**Configuring a Site to Site VPN on the remote location (Dynamic WAN IP address)**

**Note: The Dynamic WAN IP Address must be Public.**

**Network Configuration:**

1. LAN Subnet: **10.10.10.0**
2. Subnet Mask: **255.255.255.0**
3. WAN IP: DHCP (As this is a Dynamic IP Address)
4. Local IKE ID SonicWall Identifier: **newyork** (This has to match the central location VPN's **Peer IKE ID SonicWall Identifier**)

**Step 1: Creating Address Object for remote site:**

- Login to the Remote location SonicWall appliance
- Navigate to **Manage | Policies | Objects | AddressObjects** page.
- Click on **Add** button, enter the following settings.

Name – **Chicago vpn**  
 Zone – **VPN**  
 Type – **Network**  
 Network – **192.168.168.0**  
 Netmask – **255.255.255.0**

- Click **OK** when finished

**Step 2: Configuration VPN Policy:**

- a. Click on **Manage | Connectivity | VPN | Base Settings**.
- b. Check the box **"Enable VPN"** under Global VPN Settings.

- c. Click on the **"Add"** button under the VPN Policies section. The VPN Policy window pops up.

Click the **General** tab

- a. Select the Authentication method as **"IKE Using Preshared Secret"**
- b. Name: **Chicago Aggressive Mode VPN**
- c. IPsec Primary Gateway Name or Address: **66.249.72.115 (Gateway of the main site, which is static IP)**
- d. IPsec Secondary Gateway Name or Address: **0.0.0.0**
- e. Shared Secret: **SonicWall**
- f. Local IKE ID: SonicWall Identifier - **newyork** (This has to match the central location VPN's **Peer IKE ID SonicWall Identifier**)
- g. Peer IKE ID: SonicWall Identifier – **Chicago** (This has to match the central location VPN's **Local IKE ID SonicWall Identifier**)

Click the **Network** tab

∅ Local Networks

Select **Choose local network from list**, and select the Address Object – **LAN Primary Subnet**

∅ Destination Networks

Select **Choose destination network from list**, and select the Address Object – **Chicago vpn**

Click the **Proposals** tab

IKE (Phase 1) Proposal

Exchange: **Aggressive Mode**  
 DH Group: **Group 2**  
 Encryption: **3DES**  
 Authentication: **SHA1**  
 Life Time (seconds): **28800**

IPsec (Phase 2) Proposal

Protocol: **ESP**  
 Encryption: **3DES**  
 Authentication: **SHA1**

Enable Perfect Forward Secrecy (not checked)

DH Group: **Group 2**  
 Life Time (seconds): **28800**

Click the **Advanced** tab

**Enable Keep Alive** box should be checked  
 VPN Policy bound to: **Zone WAN**

- Click **OK** when finished

**How to Test:**

From the remote location try to ping an IP address on the central location.

**Note:** Before receiving successful replies, you might see couple of "Request Timed Out" messages while the VPN tunnel is still establishing.