Digi Wi-Point 3G Application Guide

How to Create a VPN between Wi-Point 3G and Sonicwall

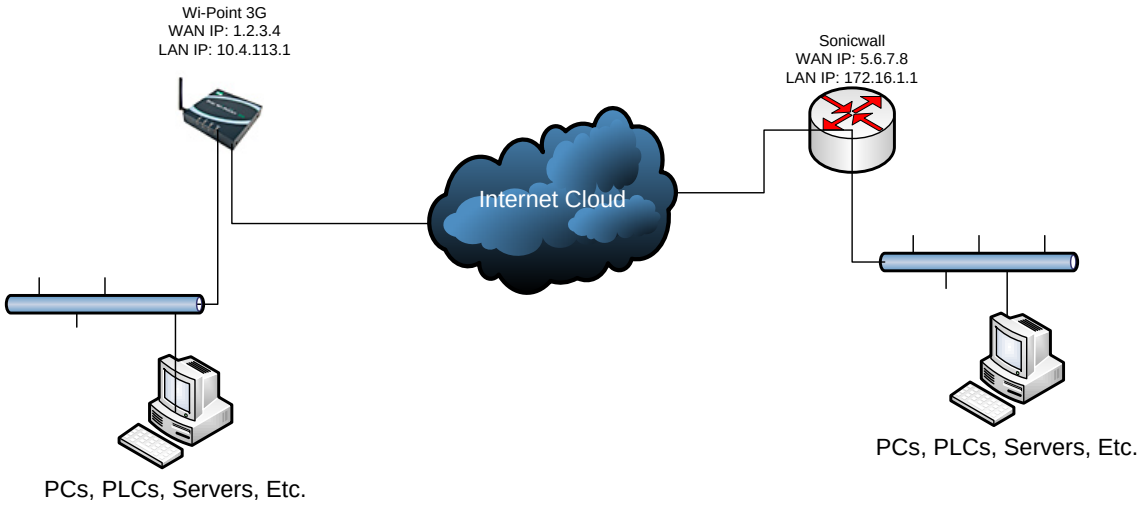
Scenario

Digi Wi-Point 3G is used for remote site connectivity. The primary site is using a Sonicwall VPN appliance. The two networks need to be connected, and the data needs to be encrypted between them.

Theory of Operation

A remote location needs to be able to build a secure tunnel between the main site and a remote branch. One location is using a Digi Wi-Point 3G gateway to provide primary internet connectivity. The other location is using a Sonicwall VPN appliance for primary site connectivity. AVPN tunnel will be created to the Digi Wi-Point 3G gateway, creating a secure connection for data to pass through.

Sample Diagram



Carrier Plan and PC / VPN Appliance Requirements

Digi Wi-Point 3G Requirements: Firmware version must be 1.1.34-8 or later. To download the latest firmware, go to http://www.digi.com/support.

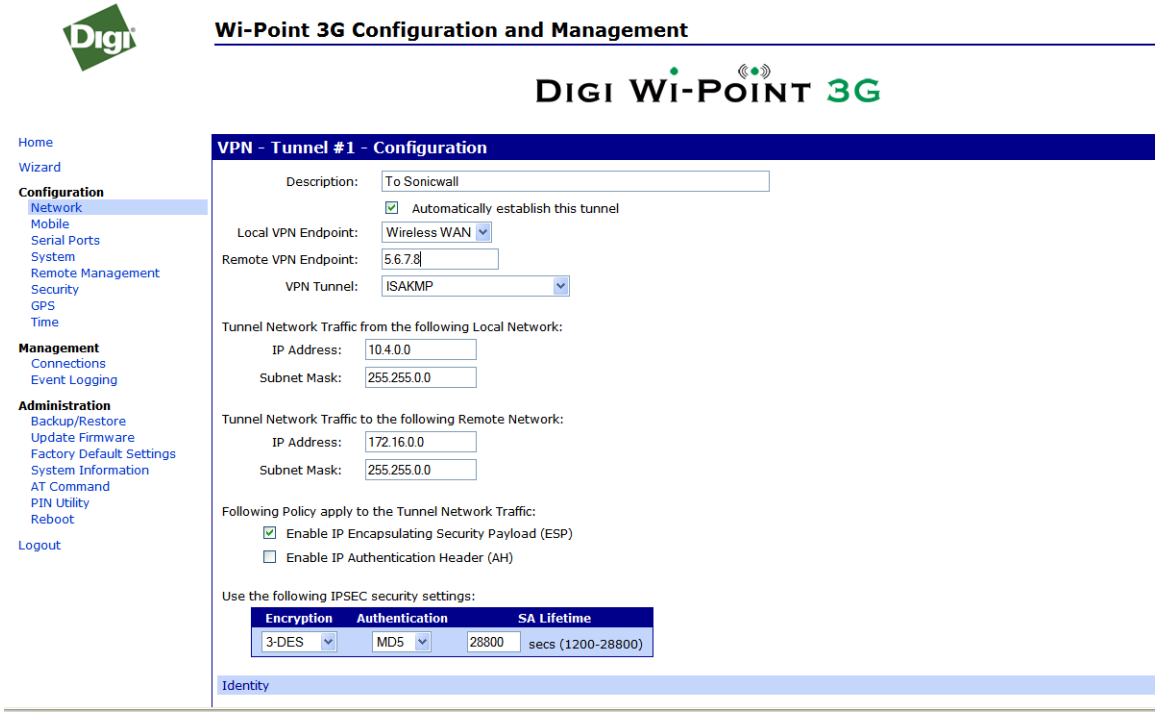
GSM GPRS/EDGE APN Type needed: VPN and GRE end-points usually require static (persistent) IP addresses and must support mobile terminated data connections. If mobile termination is not an option with your current APN, you will need to acquire a new one that does support mobile termination.

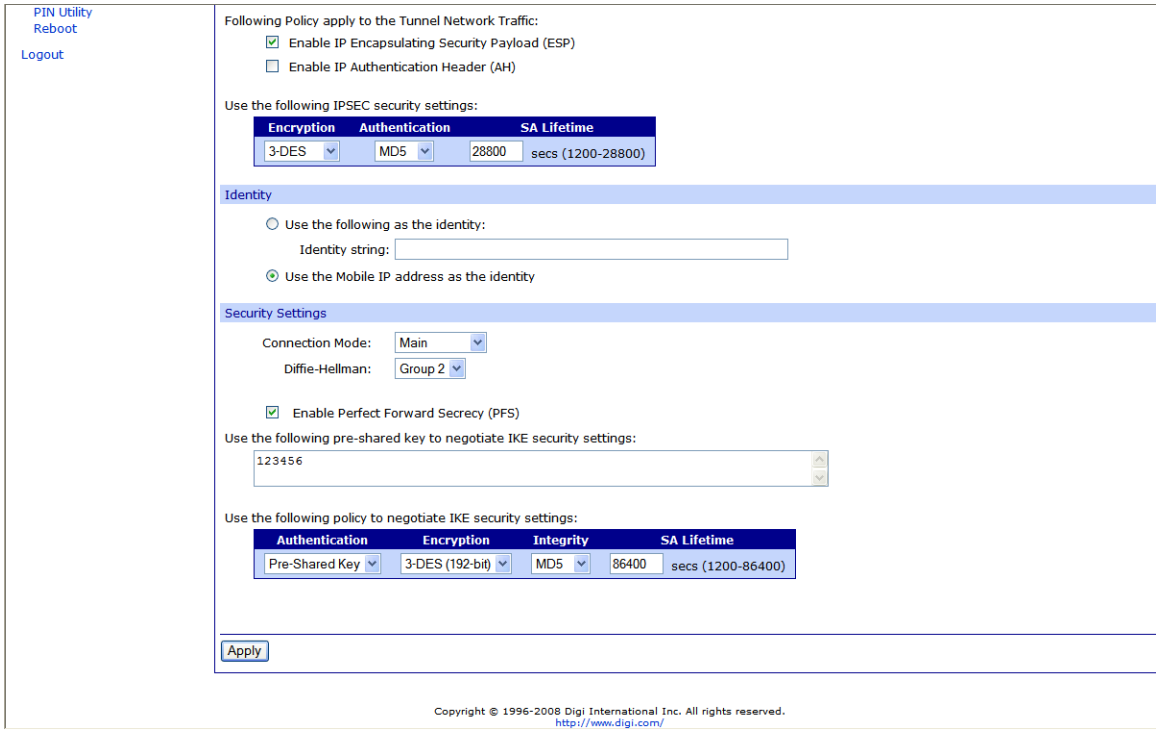
CDMA networks may also require special plans to provide static IP addresses and support mobile terminated data connections.

Check with your wireless provider on the available plan types.

Digi Wi-Point 3G Configuration

1. Read and follow the quick-start guide for the Digi Wi-Point 3G.
2. Assign a static IP address to the Ethernet port (the default address is 192.168.1.1).
3. Configure the Digi Wi-Point 3G settings
    a. Open the Web Interface if the device.
    b. Navigate to **Configuration > Network > VPN Settings**
    c. Click **VPN Tunnel Settings**
    d. Click **Add**
    e. Fill in the appropriate settings below

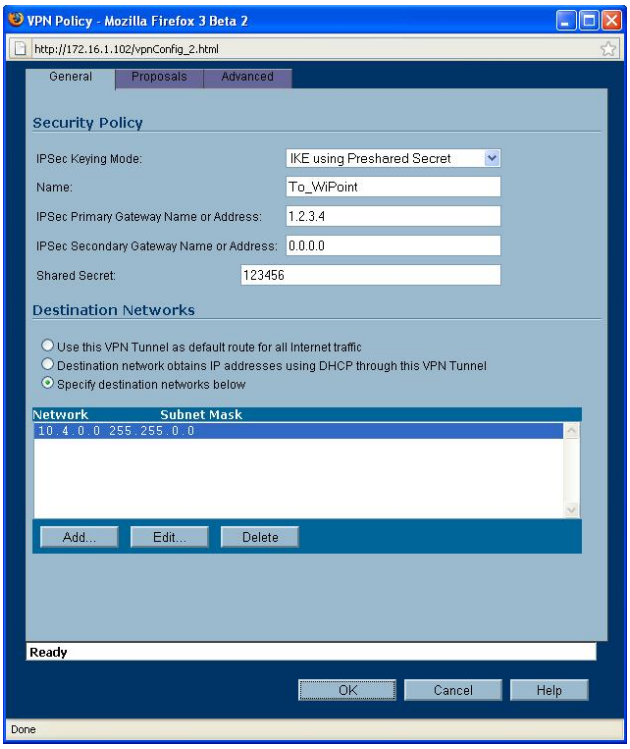


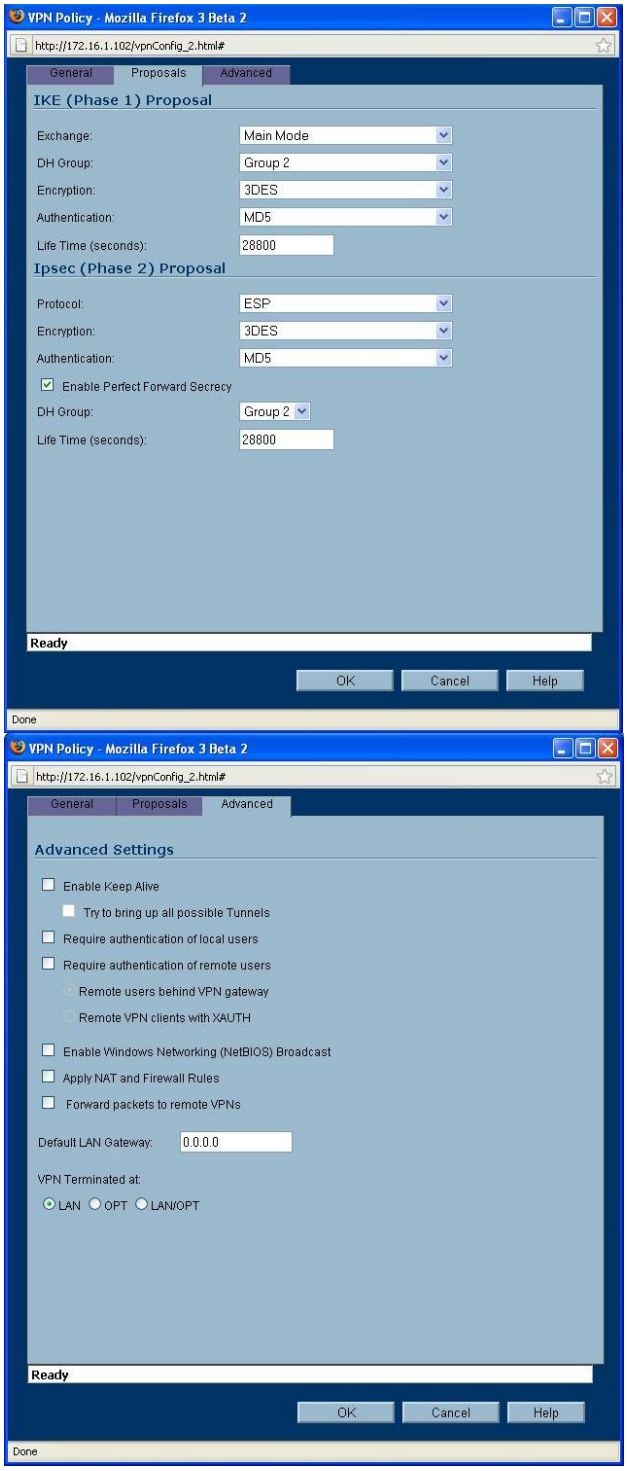


f. Click **Apply** to save the changes
g. A reboot is required for the settings to take effect. **Reboot** the unit.

Sonicwall VPN Configuration

1. Configure the Sonicwall VPN device
    a. Log into the Web Interface of the Sonicwall device.
    b. Navigate to **VPN** on the left hand panel.
    c. Under the section titled VPN Policies, click the **Add** button.
    d. Fill in the appropriate information, shown in the screenshots below





e. Click **OK** to save the settings.
f. Click **Apply** in the upper right hand corner to apply the settings to the device. You may have to reboot the device for these changes to take effect, depending on your model of Sonicwall.

ADDITIONAL NOTES

1. This configuration will work with Dynamic IP addresses, using hostnames established with DynDNS.org. When using a Dynamic IP address, you will need to set the VPN tunnel to use **Aggressive Mode** to make the connection work.
2. This configuration will work with other VPN parameters than what is listed in the screenshots. i.e. – DES, 3DES, AES 192-bit, AES 256-bit, etc.

Where to Get More Information

Refer to the Digi Wi-Point 3G user documentation and Digi technical support website at www.digi.com/support for more information. Technical assistance is available at http://www.digi.com/support/eservice/eservicelogin.jsp.

For sales and product information, please contact Digi International at 952-912-3444 or refer to the Digi Cellular wireless pages at www.digi.com.