Appendix B NETGEAR VPN Configuration

DG834GSP to FVL328

This appendix is a case study on how to configure a secure IPSec VPN tunnel from a NETGEAR DG834GSP to a FVL328. This case study follows the VPN Consortium interoperability profile guidelines (found at *http://www.vpnc.org/InteropProfiles/Interop-01.html*).

Configuration Profile

The configuration in this document follows the addressing and configuration mechanics defined by the VPN Consortium. Gather all the necessary information before you begin the configuration process. Verify whether the firmware is up to date, all of the addresses that will be necessary, and all of the parameters that need to be set on both sides. Check that there are no firewall restrictions.

Table B-1.Profile Summary

VPN Consortium Scenario:		Scenario 1
Type of VPN		LAN-to-LAN or Gateway-to-Gateway (not PC/Client-to-Gateway)
Security Scheme:		IKE with Preshared Secret/Key (not Certificate-based)
IP /	Addressing:	
	NETGEAR-Gateway A	Static IP address
	NETGEAR-Gateway B	Static IP address

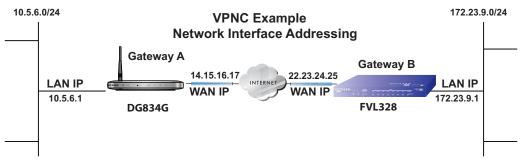


Figure B-1

Note: Product updates are available on the NETGEAR, Inc. web site at *http://kbserver.netgear.com/DG834GSP.asp*.

Step-By-Step Configuration

1. Configure the DG834GSP as in the Gateway-to-Gateway procedures using the VPN Wizard (see "How to Set Up a Gateway-to-Gateway VPN Configuration" on page 8-21), being certain to use appropriate network addresses for the environment.

The LAN Addresses used in this example are as follows:

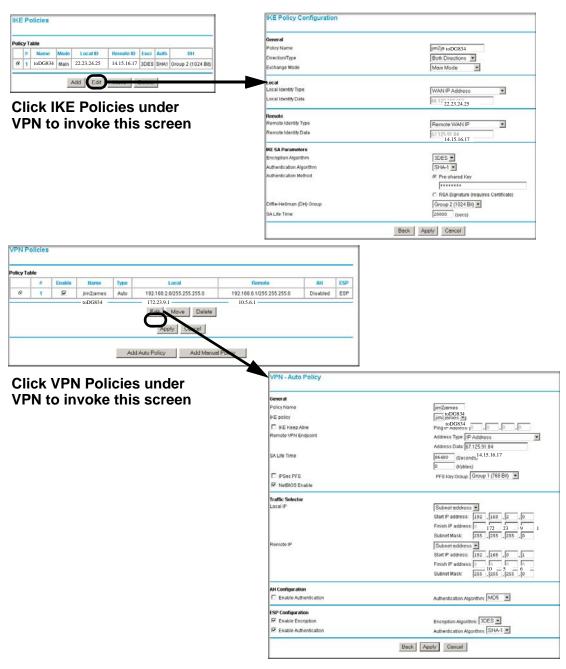
Unit	WAN IP	LAN IP	LAN Subnet Mask
DG834G	14.15.16.17	10.5.6.1	255.255.255.0
FVL328	22.13.24.25	172.23.9.1	255.255.255.0

- a. In Step 1, enter toFVL328 for the Connection Name.
- **b.** In Step 2, enter **22.23.24.25** for the remote WAN's IP address.
- **c.** In Step 3, enter the following:
 - IP Address = **172.23.9.1**
 - Subnet Mask = **255.255.255.0**

VPN Policies								Policies und - VPN to inv			
Policy	Policy Table						-			ORC	
		Enable	Name	Туре	b	ocal	Remote	ESP	this screer	ו	
e	1	V	toFVL328		10.5.		172.23.9.1 / 255.255.255.0	3DES			
-	_				_		100.100.100.0				
				E	dit	Delete					
				Арр	oly	Cancel					
			Add Auto	Policy		Add Manu	al Policy				
						VPN - Au	to Policy				
						General					
						Policy Name				ja toFVL328	
						Remote VPN	I Endpoint			Address Type:	Fixed IP Address
						_				Address Data:	66.120.188.152 22.23.24.25
						✓ NetBIOS				Ping IP Address:	
						Local LAN IP Address				Subnet address 💌	
										Single/Start address:	192 168 0 1
										Finish address:	
										Subnet Mask:	255 .255 .255 .0
						Remote LAN	Î				
						IP Address				Subnet address	
										Single/Start IP address:	192 . 168 . 2 . 1
										Finish IP address:	<u>172</u> <u>23</u> <u>9</u> <u>172</u>
										Subnet Mask:	255 .255 .255 .0
						IKE					
						Direction				Initiator and Responder	•
						Exchange M	ode			Main Mode 💌	
							an (DH) Group			Group 2 (1024 Bit) 💌	
						Local Identit	у Туре			WAN IP Address	•
						Data				n/a	
						Remote Ider	ntity Type			IP Address	•
						Data				n/a	
						Parameters					
						Encryption A				3DES 💌	
						Authenticatio				SHA-1 💌	
						Pre-shared I SA Life Time				12345678	
							PFS (Perfect Forward	Security)		28800 (Seconds)	
								,,	Back Ap	oly Cancel	

NETGEAR VPN Configuration

- 2. Configure the FVL328 as in the Gateway-to-Gateway procedures for the VPN Wizard (see "How to Set Up a Gateway-to-Gateway VPN Configuration" on page 8-21), being certain to use appropriate network addresses for the environment.
 - a. In Step 1, enter toDG834 for the Connection Name
 - b. In Step 2, enter 14.15.16.17 for the remote WAN's IP address
 - **c.** In Step 3, enter the following:
 - IP Address = **10.5.6.1**
 - Subnet Mask = **255.255.255.0**



NETGEAR VPN Configuration

- 3. Test the VPN tunnel by pinging the remote network from a PC attached to the DG834GSP.
 - **a.** Open the command prompt (Start -> Run -> cmd)
 - **b.** ping 172.23.9.1

C:\WINNT\system32\ping.exe	
Pinging 172.23.9.1 with 32 bytes of data:	
Reply from 172.23.9.1: bytes=32 time<10ms TTL=128 Reply from 172.23.9.1: bytes=32 time<10ms TTL=128	
Reply from 172.23.9.1: bytes=32 time<10ms TTL=128 Reply from 172.23.9.1: bytes=32 time<10ms TTL=128	
Reply from 172.23.9.1: bytes=32 time(10ms TTL=128 Reply from 172.23.9.1: bytes=32 time(10ms TTL=128	
Reply from 172.23.9.1: bytes=32 time<10ms TTL=128 -	
I	

Figure B-4

Note: The pings may fail the first time. If this happens, try the pings a second time.

DG834GSP with FQDN to FVL328

This appendix is a case study on how to configure a VPN tunnel from a NETGEAR DG834GSP to a FVL328 using a Fully Qualified Domain Name (FQDN) to resolve the public address of one or both routers. This case study follows the VPN Consortium interoperability profile guidelines (found at *http://www.vpnc.org/InteropProfiles/Interop-01.html*).

Configuration Profile

The configuration in this document follows the addressing and configuration mechanics defined by the VPN Consortium. Gather all the necessary information before you begin the configuration process. Verify whether the firmware is up to date, all of the addresses that will be necessary, and all of the parameters that need to be set on both sides. Check that there are no firewall restrictions.

Table B-2. Profile Summary

VPN Consortium Scenario:		Scenario 1
Type of VPN		LAN-to-LAN or Gateway-to-Gateway (not PC/Client-to-Gateway)
Security Scheme:		IKE with Preshared Secret/Key (not Certificate-based)
IP /	Addressing:	
	NETGEAR-Gateway A	Fully Qualified Domain Name (FQDN)
	NETGEAR-Gateway B	FDQN

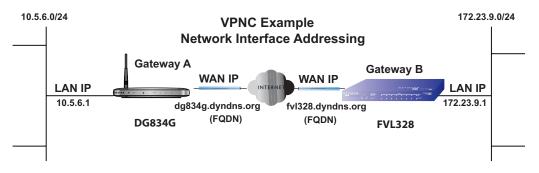


Figure B-5

Note: Product updates are available on the NETGEAR, Inc. web site at *http://kbserver.netgear.com/DG834GSP.asp*.

The Use of a Fully Qualified Domain Name (FQDN)

Many ISPs (Internet Service Providers) provide connectivity to their customers using dynamic instead of static IP addressing. This means that a user's IP address does not remain constant over time which presents a challenge for gateways attempting to establish VPN connectivity.

A Dynamic DNS (DDNS) service allows a user whose public IP address is dynamically assigned to be located by a host or domain name. It provides a central public database where information (such as email addresses, host names and IP addresses) can be stored and retrieved. Now, a gateway can be configured to use a 3rd party service in lieu of a permanent and unchanging IP address to establish bi-directional VPN connectivity.

To use DDNS, you must register with a DDNS service provider. Example DDNS Service Providers include:

- DynDNS: www.dyndns.org
- TZO.com: netgear.tzo.com
- ngDDNS: ngddns.iego.net

In this example, Gateway A is configured using an example FQDN provided by a DDNS Service provider. In this case we established the hostname **dg834g.dyndns.org** for gateway A using the DynDNS service. Gateway B will use the DDNS Service Provider when establishing a VPN tunnel.

In order to establish VPN connectivity Gateway A must be configured to use Dynamic DNS, and Gateway B must be configured to use a DNS hostname to find Gateway A provided by a DDNS Service Provider. Again, the following step-by-step procedures assume that you have already registered with a DDNS Service Provider and have the configuration information necessary to set up the gateways.

Step-By-Step Configuration

1. Log in to the DG834GSP labeled Gateway A as in the illustration.

Out of the box, the DG834GSP is set for its default LAN address of http://10.1.1.1 with its default user name of **admin** and default password of **password**. For this example we will assume you have set the local LAN address as 10.5.6.1 for Gateway A and have set your own password.

2. Click on the **Dynamic DNS** link on the left side of the Settings management GUI. This will take you to the Dynamic DNS Menu.

- **3.** On the DG834GSP, configure the Dynamic DNS settings.
 - **a.** Browse to the Dynamic DNS Setup Screen (see Figure B-6) in the Advanced menu.

Dynamic DNS				
Use a Dynamic DNS Service				
Service Provider www.DynDNS.org 💌				
Host Name				
User Name				
Password				
🗆 Use Wildcards				
Apply Cancel	Show Status			

- **b.** Configure this screen with appropriate account and hostname settings and then click **Apply**.
 - Check the box Use a Dynamic DNS Service.
 - Host Name = dg834g.dyndns.org
 - User Name = <user's account username>
 - Password = <user's account password>
- c. Click Show Status. The resulting screen should show Update OK: good (see Figure B-7).

🚰 DDNS Status - Microsoft Internet Explorer	<u>_0×</u>
Update OK: good	<u> </u>
	_,
	~



- **4.** On the FVL328, configure the Dynamic DNS settings. Assume a properly configured DynDNS account.
 - **a.** Browse to the Dynamic DNS Setup Screen (see Figure B-8) in the Advanced menu.



Figure B-8

- **b.** Select the **DynDNS.org** radio button (see Figure B-8), configure with appropriate account and hostname settings (see Figure B-9), and then click **Apply**.
 - Host and Domain Name = fvl328.dyndns.org
 - User Name = <user's account username>
 - Password = <user's account password>

Dynamic DNS					
Use a dynamic DNS service					
O None					
OynDNS.org	Click here for information				
C TZO.com	Click here for free trial				
O ngDDNS	Click here to register				
DynDNS Host and Domain Name example: yourname.dyndns.org					
User Name					
Password					
🗆 Use wildcards					
Apply	Cancel Show Status				

c. Click **Show Status**. The resulting screen should show Update OK: good (see Figure B-10).

🚰 Dynamic DNS Details - Microsoft Internet Explorer	<u>_ ×</u>
Dynamic DNS	
Update OK:good	
TZO.com	
TZO service is not enabled!	
ngDDNS	
ngDDNS service is not enabled!	
🕙 Done 🛛 👘 🖉 I	nternet //

Figure B-10

NETGEAR VPN Configuration

5. Configure the DG834GSP as in the Gateway-to-Gateway procedures using the VPN Wizard (see "How to Set Up a Gateway-to-Gateway VPN Configuration" on page 8-21), being certain to use appropriate network addresses for the environment.

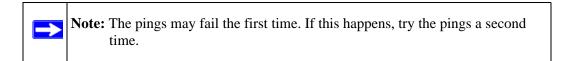
The LAN Addresses used in this example are as follows:

Device	LAN IP Address	LAN Subnet Mask
DG834GSP	10.5.6.1	255.255.255.0
FVL328	172.23.6.1	255.255.255.0

- a. In Step 1, enter toFVL328 for the Connection Name.
- **b.** In Step 2, enter **fvl328.dyndns.org** for the remote WAN's IP address.
- **c.** In Step 3, enter the following:
 - IP Address = **172.23.9.1**
 - Subnet Mask = **255.255.255.0**
- 6. Configure the FVL328 as in the Gateway-to-Gateway procedures for the VPN Wizard (see "How to Set Up a Gateway-to-Gateway VPN Configuration" on page 8-21), being certain to use appropriate network addresses for the environment.
 - a. In Step 1, enter toDG834 for the Connection Name.
 - **b.** In Step 2, enter **dg834g.dyndns.org** for the remote WAN's IP address.
 - **c.** In Step 3, enter the following:
 - IP Address = **10.5.6.1**
 - Subnet Mask = **255.255.255.0**
- 7. Test the VPN tunnel by pinging the remote network from a PC attached to the DG834GSP.
 - **a.** Open the command prompt (Start -> Run -> cmd)
 - **b.** ping 172.23.9.1

C:\WINNT\system32\ping.exe	
Pinging 172.23.9.1 with 32 bytes of data:	_
Reply from 172.23.9.1: bytes=32 time<10ms TTL=128 Reply from 172.23.9.1: bytes=32 time<10ms TTL=128	
-	-

Figure B-11



Configuration Summary (Telecommuter Example)

The configuration in this document follows the addressing and configuration mechanics defined by the VPN Consortium. Gather all the necessary information before you begin the configuration process. Verify whether the firmware is up to date, all of the addresses that will be necessary, and all of the parameters that need to be set on both sides. Assure that there are no firewall restrictions.

VPN Consortium Scenario:		Scenario 1	
Type of VPN:		PC/client-to-gateway, with client behind NAT router	
Security Scheme:		IKE with Preshared Secret/Key (not Certificate-based)	
IP /	Addressing:		
	Gateway	Fully Qualified Domain Name (FQDN)	
	Client	Dynamic	

Table B-3.	Configuration summary (telecommuter example)
------------	--

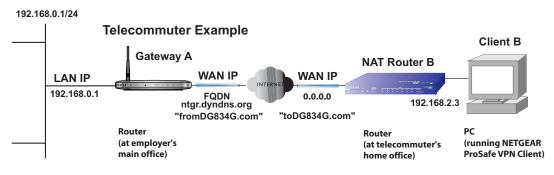


Figure B-12

Setting Up the Client-to-Gateway VPN Configuration (Telecommuter Example)

Setting up a VPN between a remote PC running the NETGEAR ProSafe VPN Client and a network gateway involves the following two steps:

• Step 1: Configuring the Client-to-Gateway VPN Tunnel on the VPN Router at the Employer's Main Office.

• Step 2: Configuring the NETGEAR ProSafe VPN Client on the Remote PC at the Telecommuter's Home Office configures the NETGEAR ProSafe VPN Client endpoint.

Step 1: Configuring the Client-to-Gateway VPN Tunnel on the VPN Router at the Employer's Main Office

Follow this procedure to configure a client-to-gateway VPN tunnel by filling out the VPN Auto Policy screen.

1. Log in to the VPN router at its LAN address of http://10.1.1.1 with its default user name of admin and password of **password**. Click the **VPN Policies** link in the main menu to display the VPN Policies screen. Click **Add Auto Policy** to proceed and enter the information.

General			fromDG834GSP (in the example)
Policy Name	fromDG834G		Dynamic IP address
Remote VPN Endpoint	t Address Type:	Dynamic IP address	
	Address Data:	n/a	IKE Keep Alive is optional;
MetBIOS Enable			must match Remote LAN IP
🗹 IKE Keep Alive	Ping IP Address:	192 . 168 . 2 . 3	Address when enabled
Local LAN			(remote PC must respond to pings)
IP Address	Subnet address 🔻		Subnet address
	Single/Start address:	192 168 0 1 -	192.168.0.1 (in this example)
	Finish address:		255.255.255.0
	Subnet Mask:	255 255 255 0	
	GUMIEL MASK.	0, 663, 663, 663	
Remote LAN			
IP Address	Single address		—— Single address
	Single/Start IP address	192 . 168 . 2 . 3	▲ 192.168.2.3 (in this example) ◄
	Finish IP address:		(Remote NAT router must have
	Subnet Mask:		Address Reservation set and
494820			VPN Passthrough enabled)
IKE Direction	Responder only		
			—— Main Mode
Exchange Mode Diffie-Hellman (DH)	Main Mode 🔽 🗲	T	Fully Qualified Domain Name
Group	Auto		fromDG834G.com (in this example)
Local Identity Type	Fully Qualified Doma	ain Name 💌	Fully Qualified Domain Name
Data	fromDG834G.com		
Remote Identity Type	Fully Qualified Doma	ain Name 💌 🗲	toDG834G.com (in this example)
Data	toDG834G.com		
Parameters			-
Encryption Algorithm	3DES 🗸 🔫		3DES
Authentication Algorithm	Auto 💌		12345678 (in this example) 3600
Pre-shared Key	12345678		3000
SA Life Time	3 600 (Seconds)		
Enable PFS (Perfe			

2. Click Apply when done to get the VPN Policies screen.

	-	Table Enable	Name	Туре	Local	Remote	ESP
			09340 Auto 192.168.0.1	192.168.0.1 <i>1</i> 255.255.255.0		3DES	
			F	dit	Delete		
			App	ly	Cancel		

Figure B-14

To view or modify the tunnel settings, select the radio button next to the tunnel entry and click **Edit**.

Step 2: Configuring the NETGEAR ProSafe VPN Client on the Remote PC at the Telecommuter's Home Office

This procedure describes how to configure the 54 Mbps ADSL Modem Wireless Router Model DG834GSP. We will assume the PC running the client has a dynamically assigned IP address.

The PC must have a VPN client program installed that supports IPSec (in this case study, the NETGEAR VPN ProSafe Client is used). Go to the NETGEAR website (*http://www.netgear.com*) and select **VPN01L_VPN05L** in the **Product Quick Find** drop-down menu for information on how to purchase the NETGEAR ProSafe VPN Client.



Note: Before installing the 54 Mbps ADSL Modem Wireless Router Model DG834GSP software, be sure to turn off any virus protection or firewall software you may be running on your PC.

- 1. Install the NETGEA ProSafe VPN Client on the remote PC and reboot.
 - a. You may need to insert your Windows CD to complete the installation.
 - **b.** If you do not have a modem or dial-up adapter installed in your PC, you may see the warning message stating "The **NETGEAR ProSafe VPN** Component requires at least one dial-up adapter be installed." You can disregard this message.
 - c. Install the **IPSec** Component. You may have the option to install either the **VPN Adapter** or the **IPSec Component** or both. The **VPN Adapter** is not necessary.
 - **d.** The system should show the **ProSafe** icon (**S**) in the system tray after rebooting.
 - e. Double-click the system tray icon to open the Security Policy Editor.
- **2.** Add a new connection.
 - a. Run the NETGEAR ProSafe Security Policy Editor program and create a VPN Connection.

b. From the Edit menu of the Security Policy Editor, click Add, then Connection. A New Connection listing appears in the list of policies. Rename the New Connection so that it matches the Connection Name you entered in the VPN Settings of the DG834GSP on Gateway A.

Note: In this example, the Connection Name used on the client side of the VPN tunnel is to DG834GSP and it does not have to match the VPN_client Connection Name used on the gateway side of the VPN tunnel (see Figure B-16) because Connection Names are arbitrary to how the VPN tunnel functions.

Tip: Choose Connection Names that make sense to the people using and administrating the VPN.

File Edit Options Help	
Image: Security Policy	NETGEAR <mark>S</mark>
My Connections B Mew Connection Dither Connection	Connection Security C Secure C Non-secure C Block
	Remote Party Identity and Addressing ID Type Any IP Address Any ID 0.0.0.0
	Protocol All Port All Port
	ID Lype IP Address



N Security Policy Editor - NETGEAR ProSaf	e VPN Client
Connections	Connect using Secure Gateway Hostname V Connect Manually Consecure Consecu

- c. Select Secure in the Connection Security check-box group.
- d. Select IP Subnet in the ID Type menu.
- e. In this example, type **10.1.1.1** in the Subnet field as the network address of the DG834GSP.
- f. Enter 255.255.255.0 in the Mask field as the LAN Subnet Mask of the DG834GSP.
- g. Select All in the Protocol menu to allow all traffic through the VPN tunnel.
- h. Select the Connect using Secure Gateway Tunnel check box.
- i. Select **Domain Name** in the **ID Type** menu below the check box and enter **fromDG834G.com** (in this example).
- j. Select Gateway Hostname and enter ntgr.dyndns.org (in this example).
- k. The resulting Connection Settings are shown in Figure B-16.
- **3.** Configure the **Security Policy** in the 54 Mbps ADSL Modern Wireless Router Model DG834GSP software.
 - **a.** In the **Network Security Policy** list, expand the new connection by double clicking its name or clicking on the "+" symbol. **My Identity** and **Security Policy** subheadings appear below the connection name.

b. Click on the **Security Policy** subheading to show the **Security Policy** menu.

Network Security Policy Image: Security Pol



- c. Select the Main Mode in the Select Phase 1 Negotiation Mode check box.
- 4. Configure the VPN Client Identity.

In this step, you will provide information about the remote VPN client PC. You will need to provide the Pre-Shared Key that you configured in the DG834GSP and either a fixed IP address or a "fixed virtual" IP address of the VPN client PC.

a. In the Network Security Policy list on the left side of the Security Policy Editor window, click My Identity.



- **b.** Choose None in the Select Certificate menu.
- c. Select **Domain Name** in the **ID Type** menu and enter **toDG834G.com** (in this example) in the box below it. Choose **Disabled** in the **Virtual Adapter** menu.
- **d.** In the **Internet Interface** box, select **Intel PRO/100VE Network Connection** (in this example, your Ethernet adapter may be different) in the **Name** menu and enter **10.1.2.3** (in this example) in the **IP Addr** box.

e. Click the **Pre-Shared Key** button.

Pre-Shared Key		×
Enter Key		
	Enter <u>Pie</u> Shared Key (at least 8 characters) This key is used during Authentication Phase if the Authentication Method Proposal is "Pre Shared key".	
	OK Cancel	

Figure B-19

- f. In the Pre-Shared Key dialog box, click the Enter Key button. Enter the DG834GSP's Pre-Shared Key and click OK. In this example, 12345678 is entered. This field is case sensitive.
- 5. Configure the VPN Client Authentication Proposal.

In this step, you will provide the type of encryption (DES or 3DES) to be used for this connection. This selection must match your selection in the VPN router configuration.

- **a.** In the **Network Security Policy** list on the left side of the **Security Policy Editor** window, expand the **Security Policy** heading by double clicking its name or clicking on the "+" symbol.
- **b.** Expand the **Authentication** subheading by double clicking its name or clicking on the "+" symbol. Then select **Proposal 1** below **Authentication**.

Elle Edit Options Help
Network Security Policy My Connections My Connections My Lennity Security Policy My Lennity Security Policy Authentication Method and Algorithms Authentication (Phase 1) Rey Exchange (Phase 2) Proposal 1 Proposal 1 Dther Connections Life Unspecified Life My Group Diffie-Hellman Group 2

Figure B-20

- c. In the Authentication Method menu, select Pre-Shared key.
- d. In the Encrypt Alg menu, select the type of encryption. In this example, use Triple DES.
- e. In the Hash Alg menu, select SHA-1.
- f. In the SA Life menu, select Unspecified.
- g. In the Key Group menu, select Diffie-Hellman Group 2.
- 6. Configure the VPN Client Key Exchange Proposal.

In this step, you will provide the type of encryption (**DES** or **3DES**) to be used for this connection. This selection must match your selection in the VPN router configuration.

a. Expand the **Key Exchange** subheading by double clicking its name or clicking on the "+" symbol. Then select **Proposal 1** below **Key Exchange**.

Figure B-21

- **b.** In the **SA Life** menu, select **Unspecified**.
- c. In the Compression menu, select None.
- d. Check the Encapsulation Protocol (ESP) checkbox.
- e. In the Encrypt Alg menu, select the type of encryption. In this example, use Triple DES.
- f. In the Hash Alg menu, select SHA-1.
- g. In the Encapsulation menu, select Tunnel.
- h. Leave the Authentication Protocol (AH) checkbox unchecked.
- 7. Save the VPN Client settings.

From the File menu at the top of the Security Policy Editor window, select Save.

After you have configured and saved the VPN client information, your PC will automatically open the VPN connection when you attempt to access any IP addresses in the range of the remote VPN router's LAN.

8. Check the VPN Connection.

NETGEAR VPN Configuration

To check the **VPN Connection**, you can initiate a request from the remote PC to the VPN router's network by using the **Connect** option in the ADSL Modem Wireless Router menu bar (see Figure B-22). Since the remote PC has a dynamically assigned WAN IP address, it must initiate the request.

- **a.** Right-click the system tray icon to open the popup menu.
- b. Select Connect to open the My Connections list.
- c. Choose toDG834G.

The 54 Mbps ADSL Modem Wireless Router Model DG834GSP will report the results of the attempt to connect. Once the connection is established, you can access resources of the network connected to the VPN router.

	Security Policy Editor Certificate Manager
	Deactivate Security Policy
	Reload Security Policy Remove Icon
	Log Viewer Connection Monitor
	Disconnect
My Connections\toDG834G	Connect
	Help
	About NETGEAR ProSafe VPN Cliep
	📔 🖉 🚱 🚮 🧭 🖉 🕺 12:19 PM

Right-mouse-click on the system tray icon to open the popup menu.

Figure B-22

To perform a ping test using our example, start from the remote PC:

- **a.** Establish an Internet connection from the PC.
- b. On the Windows taskbar, click the Start button, and then click Run.

c. Type ping -t 10.1.1.1, and then click OK.

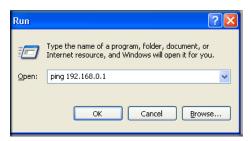


Figure B-23

This will cause a continuous ping to be sent to the VPN router. After between several seconds and two minutes, the ping response should change from **timed out** to **reply**.

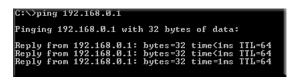


Figure B-24

Once the connection is established, you can open the browser of the PC and enter the LAN IP address of the VPN router. After a short wait, you should see the login screen of the VPN router (unless another PC already has the VPN router management interface open).

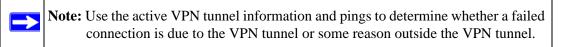
Note: You can use the VPN router diagnostic utilities to test the VPN connection from the VPN router to the client PC. Run ping tests from the **Diagnostics** link of the VPN router main menu.

Monitoring the VPN Tunnel (Telecommuter Example)

Viewing the PC Client's Connection Monitor and Log Viewer

To view information on the progress and status of the VPN client connection, open the 54 Mbps ADSL Modem Wireless Router Model DG834GSP Log Viewer.

1. To launch this function, click on the Windows Start button, then select Programs, then 54 Mbps ADSL Modem Wireless Router Model DG834GSP, then Log Viewer.



2. The Connection Monitor screen is shown below:

Connection Monitor - NETGEAR Pros	afe VPN Client					_ 🗆 X
Global Statistics Non-Secured Packets 2714 Dropped Packets 0	Secured Packets 0 Secured Data (KBytes) 0	Beset	<u>C</u> lose Details			
Connection Name Local Address	Local Subnet Remote Address	Remote Modifier	GW Address	Protocol	Local Port	Rem Port

Figure B-25

While the connection is being established, the **Connection Name** field in this menu will show **SA** before the name of the connection. When the connection is successful, the **SA** will change to the yellow key symbol.



Note: While your PC is connected to a remote LAN through a VPN, you might not have normal Internet access. If this is the case, you will need to close the VPN connection in order to have normal Internet access.

Viewing the VPN Router's VPN Status and Log Information

To view information on the status of the VPN client connection, open the VPN router's VPN Status screen by following the steps below:

1. To view this screen, click the **Router Status** link of the VPN router's main menu, then click the **VPN Status** button. The **VPN Status/Log** screen for a connection is shown below:

Sun,	2002-09-08	12:01:35 -	added connection description "fromDG834 📥
Sun,	2002-09-08	12:01:35 -	adding interface ipsec0/ppp0 67.116.6.4
Tue,	2005-05-24	20:46:33 -	[fromDG834G] responding to Main Mode fr
Tue,	2005-05-24	20:46:35 -	[fromDG834G] sent MR3, ISAKMP SA establ
Tue,	2005-05-24	20:46:35 -	[fromDG834G] responding to Quick Mode
Tue,	2005-05-24	20:46:36 -	[fromDG834G] IPsec SA established
0.000			deleting connection "fromDG834G" instan
Tue,	2005-05-24	20:50:41 -	deleting connection "fromDG834G"
			shutting down interface ipsec0/ppp0 67.
0.000			added connection description "fromDG834
Tue,	2005-05-24	20:50:42 -	adding interface ipsec0/ppp0 67.116.6.4
•			۲ ۲

Figure B-26

2. To view the VPN tunnels status, click the VPN Status link on the right side of the main menu.

¥	SPI (In)	SPI (Out)	Policy Name	Remote Endpoint	Action	SLifeTime	HLifeTim
1 a	aa185e44	af9bffcb	fromDG834G	66.120.188.152	Drop	3289	3287

Figure B-27

NETGEAR VPN Configuration

Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com