

# WatchGuard® Vclass Mobile User VPN Client End User Brochure—Windows 98/Me

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WatchGuard Vclass Mobile User VPN (MUVPN) client version 6.0 creates a secure tunnel between a remote computer and a company network over the Internet. In other words, you can connect to the Internet from home or on the road and then communicate safely and security with your company network to read mail, browse Network Neighborhood, or access shared files.

## What do I need?

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Every computer used as a MUVPN client remote computer *must* have the following requirements.

### System Requirements

- PC-compatible computer with Pentium processor or equivalent
- Minimum RAM for Microsoft Windows 98: 32 MB
- Minimum RAM for Microsoft Windows ME: 64 MB
- The latest service packs for each operating system are recommended, but not necessarily required.
- 10 MB hard disk space
- Native Microsoft TCP/IP communications protocol
- Ethernet for network connections
- Microsoft Internet Explorer 4.0 or later
- An Internet Service Provider account
- A Dial-Up or Broadband (DSL or Cable modem) Connection

## Installation requirements

To install and run the Mobile User VPN, you *must* receive the following from your network administrator:

### *MUVPN installation file*

Either a `vmuvpn.exe` or `vmuvpnlite.exe` file.

### *The MUVPN security policy file*

This is the `.spd` file.

### *A personalized certificates file—if you are using certificates to authenticate*

You may also receive a password with the personalized certificate file to be used when the file is imported into the MUVPN client.

### *Username and Password*

These are used when making a MUVPN connection.

## Preparation

Network configurations *must* be prepared and set up to use the remote WINS and DNS servers on the network behind the Firebox.

However, if you are using the MUVPN client virtual adapter, the WINS and DNS settings are *not* configured on the client computers, but rather on the Firebox by your network administrator.

## Configuring networking names

The remote computer *must* be given a unique name as well as a domain name.

From the Windows desktop:

- 1 Select **Start** ⇒ **Settings** ⇒ **Control Panel**. Double-click the **Network** icon.  
The Network window appears.
- 2 Verify that the Client for Microsoft Networks is installed.  
If the Client for Microsoft Networks is not installed, you *must* install it. For instructions, see the following section, "Installing the Client for Microsoft Networks".
- 3 Click the **Identification** tab.
- 4 Enter a name for the remote computer.  
This *must* be a unique name on the remote network.

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you to establish a remote session with the company network before the computer actually starts, drive mapping fails during the boot process and a red X appears on the drive icon. Establish a MUVPN tunnel and open the network drive. The red X should disappear.

### **I sometimes get prompted for a password when I am browsing the company network...**

Due to a Windows networking limitation, remote user virtual private networking products only allow access to a single network domain. If your company is large enough to require subnetting (multiple networks connected together), you will only be able to browse your own domain. Attempts to access other domains will result in a password prompt. Unfortunately, even providing the correct information will not open these additional networks.

### **It takes a really long time to shut down the computer after using Mobile User VPN...**

If you open and browse a mapped network drive during a MUVPN session, the Windows operating system waits for a signal from the network before it times out and completes the shut down cycle.

### **I lost the connection to my ISP, and now I can't use the company network...**

If you lose Internet connection long enough, MUVPN also loses the secure tunnel. Follow the steps to close the tunnel. Then connect to the Internet and restart the MUVPN client.

- 5 Enter the domain name you are connecting to.  
This should be the same as the Logon to Windows NT domain value.
- 6 Enter a description for your computer (optional).
- 7 Click **OK**. Click **OK** to close and save changes to the Network control panel.  
Click **Cancel** if you do not want to save any changes.
- 8 Reboot the machine.

### **Installing the Client for Microsoft Networks**

From the Networks window:

- 1 Click the **Configuration** tab. Click **Add**.  
The Select Network Component Type window appears.
- 2 Select **Client**. Click **Add**.  
The Select Network Client window appears.
- 3 Select **Microsoft** from the list on the left. Select **Client for Microsoft Networks** from the list on the right. Click **OK**.
- 4 Select **Client for Microsoft Networks**.
- 5 Click **Properties**.
- 6 Enable the **Log on to Windows NT domain** option.
- 7 In the Windows NT Domain field, type the domain name.  
For example, your domains might be sales, office, and warehouse.
- 8 Enable the **Logon and Restore Network Connections** option.

### **Installing Dial-Up Networking**

The Mobile User VPN Adapter, which supports L2TP, installs only if Dial-up Networking is already installed on your computer. If Dial-up Networking is not installed, follow these instructions.

From the Windows desktop:

- 1 Select **Start** ⇒ **Settings** ⇒ **Control Panel**. Double-click the **Add/Remove Programs** icon.  
The Add/Remove Properties window appears.
- 2 Click the **Windows Setup** tab.  
The Windows Setup dialog box appears and searches for installed components.
- 3 Enable the **Communications** checkbox and click the **OK** button.  
The Copying Files dialog box appears and copies the necessary files.
- 4 The Dial-Up Networking Setup dialog appears and prompts you to restart the computer. Click the **OK** button.  
The computer reboots.

Further, Windows 98 requires that the Dial-up Networking component be updated with the 1.4 patch. Please see the Microsoft Web site to receive this free update.

### Configuring the WINS and DNS settings

From the Windows desktop:

- 1 Select **Start** ⇒ **Settings** ⇒ **Control Panel**. Double-click the **Network** icon.  
The Network window appears.
- 2 Select the network component **TCP/IP** ⇒ **Dial-Up Adapter**, then click the **Properties** button.  
The TCP/IP Properties Information dialog box appears.
- 3 Click the **OK** button.
- 4 Click the **DNS Configuration** tab.  
Verify that the Enable DNS option has been enabled.
- 5 Under the “DNS Server Search Order” heading, enter your DNS server IP address, then click the **Add** button.  
If you have multiple remote DNS servers repeat this step.

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#### NOTE

Make certain that your DNS server on the Trusted network behind the Firebox is listed first.

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- 6 Click the **WINS Configuration** tab.
- 7 Verify that the **Enable WINS Resolution option** has been enabled.
- 8 Under the “WINS Server Search Order” heading, enter your WINS server IP address, then click the **Add** button.  
If you have multiple remote WINS servers repeat this step.
- 9 Click the **OK** button to close the TCP/IP Properties window.
- 10 Click the **OK** button to close the Network window.  
The System Settings Change dialog box appears.
- 11 Click the **Yes** button to restart the computer and effect the changes.

### Installation

In order to perform the installation process successfully, you *must* log into the remote computer with local administrator rights.

- 4 Right-click on the Mobile User VPN Client icon and select **Deactivate Security Policy**.  
The MUVPN icon will display a red slash to indicate that the Security Policy has been deactivated.
- 5 Right-click on the ZoneAlarm icon and select **Shutdown ZoneAlarm**.  
The ZoneAlarm dialog box appears.
- 6 Click the **Yes** button when prompted to quit ZoneAlarm.

### I have to enter my network log in information even when I'm not connected to the network...

When you start your computer, you are prompted to enter your Windows network user name, password and domain. It is very important that you enter this information correctly, just as you would if you were at the office connected to the network. Windows stores the information for use by network adapters and networked applications. Later, when you connect to your ISP and start the MUVPN client, your computer uses the stored user name, password, and domain to connect to the company network.

### I am not prompted for my user name and password when I turn my computer on...

This is most likely due to the ZoneAlarm personal firewall application. This program is very good at what it does: keeping your computer secure from unauthorized incoming or outgoing traffic. Unfortunately, it may block your computer from broadcasting its network information thereby preventing the machine from sending the necessary login information. You should be certain to shut down ZoneAlarm each time you disconnect the MUVPN connection.

### Is the Mobile User VPN tunnel is working...

The Mobile User VPN client icon, which appears in the Windows desktop system tray once it has been launched, will display a key within the icon once the client has connected.

To test the connection, ping a computer on your company network.

- Select **Start** ⇒ **Run**. Type `ping` and the IP address of a computer on your company network.

### My mapped drives have a red X through them...

The Windows operating system verifies and maps networks drives automatically when the computer starts. Because there is no way for

- 6 Click the **Yes** button to delete the Security Policy Personal Certificates and Private/Public Keys.  
The InstallShield Wizard window appears.
- 7 Verify that the option **Yes, I want to restart my computer now** is enabled and click **Finish**.  
The computer will reboot.

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**NOTE**

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The ZoneAlarm personal firewall settings are preserved under the following default directory, `c:\windows\internet logs\`. If you wish to disregard these settings, delete the contents.

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- 8 When the computer has restarted, select **Start ⇒ Programs**.
- 9 Right-click on **Mobile User VPN** and select **Delete** to remove this selection from your Start Menu.

## Troubleshooting Tips

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WatchGuard maintains a knowledge base on our Web site, including an In-Depth FAQ section on configuring and using the MUVPN client. This is available at:

[www.watchguard.com/support](http://www.watchguard.com/support)

A few of the most common issues found in installing, configuring, and using the MUVPN client are described below.

### My computer is hung up just after installing the MUVPN client...

This is most likely due to either the ZoneAlarm personal firewall application interfering with regular Local network traffic or the MUVPN client is active and is unsuccessfully attempting to create VPN tunnels.

When the MUVPN client is not in use, ZoneAlarm should be shutdown and the client deactivated.

From the Windows desktop system tray:

- 1 First, reboot your computer.
- 2 Right-click on the Mobile User VPN Client icon.
- 3 Select **Disconnect All**.  
The MUVPN Client closes all VPN tunnels.

Follow these instructions to install the MUVPN client:

- 1 Copy the MUVPN installation file to the remote computer.
- 2 Double-click the MUVPN installation file.  
If at any time during the installation process you inadvertently skip a step, simply cancel the process and begin again.
- 3 The installation welcomes you to the InstallShield Wizard. Click the **Next** button.  
During the Setup Status portion of the install procedure, the InstallShield may detect ReadOnly Files. If this occurs, click the **Yes** button for each event in order to continue the install.
- 4 The installation welcomes you again. Click the **Next** button.  
The Software Licence Agreement appears.
- 5 Click the **Yes** button, to accept the terms of the License Agreement and to continue with the installation.  
The Setup Type window appears.
- 6 Select the type of setup, by default Typical is enabled—this is the setup recommended by WatchGuard. Click the **Next** button.  
The Select Components window appears.
- 7 Keep the default components, click the **Next** button.  
The Start Copying Files window appears.
- 8 Click the **Next** button to begin copying files.  
A command prompt window appears while the `dn_i_vapmp` file is installed—this is normal. When it is complete, the installation will continue.
- 9 When the InstallShield Wizard is complete, click the **Finish** button.
- 10 Verify that the option **Yes, I want to restart my computer now** is enabled and click the **Finish** button.  
The computer reboots.

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**NOTE**

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The ZoneAlarm personal firewall may interfere with regular Local network traffic preventing access to network resources. If the remote computer is connected to the network after reboot, this may disrupt the network logon process. If in doubt, log on to the computer locally the first time after installation.

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## Importing the MUVPN Files

Import the following certificate and MUVPN security policy files received from your administrator.

### Importing the personalized certificate

- 1 Right-click the MUVPN client icon and select **Certificate Manager**.  
The Certificate Manager dialog box appears.
- 2 Click the **My Certificates** tab and then click **Import Certificate**.  
The Import Personal Certificate dialog box appears.
- 3 Click to select the appropriate personal certificate import type:
  - PKCS#12 Personal Certificate*  
This import type requires a password.
  - Certificate and Private Key File*  
This import type requires both a key file and a password.
  - Certificate Request Response File*  
This import type does *not* require a key file nor a password.
- 4 Click **Browse** to locate the certificate file and, if necessary, the key file.  
A directory navigation window appears.
- 5 Use the directory navigation features to locate the appropriate destination for the files.
- 6 Select the appropriate files and then click **Open**.
- 7 Type a password in the **Password** field if necessary.
- 8 Click **Import**.  
The Certificate Manager confirmation dialog box appears summarizing the contents of the selected file.
- 9 Review the text to verify that the name of the individual end user appears, then click **Yes**.
- 10 The newly imported personalized certificate is displayed at the **My Certificates** tab.
- 11 Click **Close**.

### Importing the MUVPN security policy

- 1 Right-click the MUVPN client icon and select **Security Policy Editor**.  
The Security Policy Editor window appears.

In order to allow this program access each time the application is executed, enable the **Remember the answer each time I use this program** checkbox.

Here is a list of a few essential programs which will need access through the ZoneAlarm personal firewall in order to operate some important applications.

#### Programs Which *Must* Be Allowed

<i>MUVPN client</i>	IreIKE.exe MuvpnConnect.exe
<i>MUVPN Connection Monitor</i>	CmonApp.exe
<i>MUVPN Log Viewer</i>	ViewLog.exe

#### Programs Which *May* be Allowed

<i>MS Outlook</i>	OUTLOOK.exe
<i>MS Internet Explorer 5.x</i>	IEXPLORE.exe
<i>Netscape 6.1</i>	netscp6.exe
<i>Standard Windows network applications</i>	lsass.exe services.exe svchost.exe winlogon.exe

## Uninstall the Mobile User VPN Client

At some point, it may become necessary to completely uninstall the MUVPN client. WatchGuard recommends a complete uninstall using the Windows Add/Remove Programs tool.

From the Windows desktop:

- 1 Select **Start** ⇒ **Settings** ⇒ **Control Panel**.  
The Control Panel window appears.
- 2 Double click on the **Add/Remove Programs** icon.  
The Add/Remove Programs window appears.
- 3 Select **Mobile User VPN** and click on the **Change/Remove** button.  
The InstallShield Wizard window appears.
- 4 Select **Remove** and click the **Next** button.  
The Confirm File Deletion dialog box appears.
- 5 Click the **OK** button to completely remove all of the components.  
A command prompt window will appear while the `dn_i_vapmp` file is uninstalled—this is normal. When it is complete the process will continue. The Uninstall Security Policy dialog box appears.

- 3 Right-click on the Mobile User VPN Client icon and select **Deactivate Security Policy**.  
The MUVPN icon will display a red slash to indicate that the Security Policy has been deactivated.

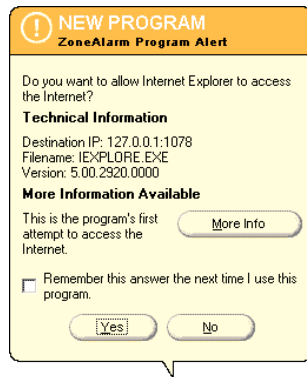
If you are using the ZoneAlarm personal firewall, deactivate this as well.

From the Windows desktop system tray:

- 1 Right-click on the ZoneAlarm icon and select **Shutdown ZoneAlarm**.  
The ZoneAlarm dialog box appears.
- 2 Click the **Yes** button when prompted to quit ZoneAlarm.

## Allowing Traffic through ZoneAlarm

When an application requires access through the ZoneAlarm personal firewall, a Program Alert will be displayed on the Windows desktop informing the user which particular program needs access. Often, the program associated with the application is not readily indicative of the application the user is attempting to execute.



In the example above, the Internet Explorer Web browser application has been launched and is attempting to access the users home page. The program which actually needs to pass through the firewall is "IEXPLORE.EXE".

- 2 Select **File ⇒ Import Security Policy**.  
The Import Policy From directory navigation window appears.
- 3 Use the directory navigation features to locate the appropriate destination for the files.
- 4 Select the appropriate file and then click **Open**.  
The Policy Import dialog box appears.
- 5 Click **Yes**.  
You are prompted by a Security Policy Editor dialog box indicating that the import has been successful.
- 6 Click **OK**.
- 7 Close the Security Policy Editor window.

## Connection

The MUVPN client enables the remote computer to establish a secure, encrypted connection to a protected network over the Internet. To do this, you *must* first connect to the Internet and then use the MUVPN client to connect to the protected network.

- 1 First establish an Internet connection through either Dial-Up Networking or directly through a local area network (LAN) or wide area network (WAN).

From the Windows desktop system tray:

- 2 Verify the MUVPN client status—it *must* be activated. If it is not, right-click on the icon and select **Activate Security Policy**.

At this point, if you are using Extended Authentication, you will be prompted for the Username and Passphrase created previously on the authentication server. Enter these values and click **OK**.

## The Mobile User VPN Client Icon

The Mobile User VPN icon exists in the Windows desktop system tray and displays several different status images. The following lists these images and provides a brief description of each:

### *Deactivated*



The MUVPN Security Policy has been deactivated or the Windows operating system did not start a necessary Mobile

User VPN service properly and the remote computer *must* be restarted (if this continues you may need to reinstall the MUVPN client).

#### **Activated**



The MUVPN client is ready to establish a secure, MUVPN tunnel connection.

#### **Activated and Transmitting Unsecured Data**



The MUVPN client is ready to establish a secure, MUVPN tunnel connection and the red bar on the right of the icon indicates that the client has begun transmitting unsecured data.

#### **Activated and Connected**



The MUVPN client has established at least one secure, MUVPN tunnel connection but is not transmitting data.

#### **Activated, Connected and Transmitting Unsecured Data**



The MUVPN client has established at least one secure, MUVPN tunnel connection and the red bar on the right of the icon indicates that the client is transmitting only unsecured data.

#### **Activated, Connected and Transmitting Secured Data**



The MUVPN client has established at least one secure, MUVPN tunnel connection and the green bar on the right of the icon indicates that the client is transmitting only secured data.

#### **Activated, Connected and Transmitting both Secure and Unsecured Data**



The MUVPN client has established at least one secure, MUVPN tunnel connection and the red and green bars on the right of the icon indicate that the client is transmitting both secured and unsecured data.

### **With the ZoneAlarm Firewall**

The ZoneAlarm personal firewall will detect the attempt of the Mobile User Connect application to access the Internet. You *must* allow a couple of programs associated with this application access to the internet in order to establish the VPN tunnel.

The New Program alert dialog box appears requesting access for the MuvpnConnect.exe program.

From the ZoneAlarm alert dialog box:

- 1 Enable the **Remember this answer the next time I use this program** option and click the **Yes** button.  
This will enable ZoneAlarm to allow the MuvpnConnect.exe program through each time you attempt to make a MUVPN connection.

The New Program alert dialog box appears requesting access for the IreIKE.exe program.

- 2 Enable the **Remember this answer the next time I use this program** option and click the **Yes** button.  
This will enable ZoneAlarm to allow the IreIKE.exe program through each time you attempt to make a MUVPN connection.

### **Disconnect Mobile User VPN**

The MUVPN tunnel is independent of the Internet connection. Close the MUVPN tunnels when the remote computer encounters either of the following events.

- Loses the Internet connection
- No longer needs the MUVPN tunnel

From the Windows desktop system tray:

- 1 Right-click on the Mobile User VPN Client icon.
- 2 Select **Disconnect All**.  
The MUVPN Client closes all VPN tunnels. This process does not affect your connection to the Internet. You *must* disconnect from the Internet separately.