

NETGEAR™ ProSafe VPN Client Release Notes

Version: 10.1.1, build 10 **Release Notes Issued on:** 09/29/2003

Product Description

The NETGEAR ProSafe VPN Client is a virtual private network (VPN) client for remote access and secure communications.

New Features and Enhancements

- Smart card removal clears keys option
- Phoenix Device-Connection Authentication support
- WAN maximum transmission unit (MTU) adjust settings for Windows 2000 and XP to better integrate running the client over DSL lines using Point-to-Point Protocol over Ethernet (PPPoE)

Component Versions

Component	Version
CSP Library (FIPS)	3.1.0b22
CSP Library (Non-FIPS)	3.0.1b22
Deterministic Networks (DNE) shim	2.20
Layer 2 Tunneling Protocol (L2TP)	4.29
Security Policy Editor	1.2.1 B10
Certificate Manager	1.2.1 B10
Phoenix Device-Connection Authentication CryptoOSD	1.2.3.2

Before Installing or Upgrading to This Version

When upgrading from an earlier version of the VPN client, take these required steps before installing the client:

1. Uninstall the existing version through the **Control Panel Add/Remove Programs** application.
2. Reboot your computer.

Note: The original Windows installation files may be required during installation, depending on the specific version of Windows and your configuration. Make sure that you have the CD-ROMs or files available before you start the installation.

Release Notes

Windows Compatibility

Supported Windows Version	
95: versions 4.00.950 B and C	Me
98 and 98 SE	2000 Professional
NT 4.0 Workstation: SP 5 and 6	XP Home and Professional
Unsupported Windows Versions (Not Y2K-Compliant)	
95, versions 4.00.950 and 950a	NT 4.0, SP 3

Install the latest Windows service pack, dial-up networking upgrade, and Internet Explorer version.

Network Interface Cards

This version should be compatible with all NDIS-compliant Ethernet network interface cards (NICs). Plug and play is supported on Windows 95, 98, Me, and 2000 only. Plug and play is not supported on notebook computers running Windows NT.

Compatibility Issues

- **Windows XP Internet Connection Firewall with the SafeNet Virtual Adapter**

The SafeNet Virtual Adapter must be "firewalled" with the Windows XP Internet Connection Firewall if the connection used to create VA is Windows XP "firewalled"; otherwise, packets will not pass.

- **Driver signing warnings on Windows XP with Security Patch MS02-50**

Description: Earlier versions of the MS02-50 Security Patch on Windows XP caused unsigned driver messages when installing the client.

Workaround: Download the latest MS02-50 Patch from this page on the Microsoft web site:

http://www.microsoft.com/technet/treeview/default.asp?url=/technet/security/bullet_in/MS02-050.asp

If the patch is no longer on this page, search for this patch on the Microsoft support web site, support.microsoft.com.

- **Nortel Contivity VPN Switch**

Description: The elements of the distinguished name sent by the switch are not in the standard order expected by the client. When entering the distinguished name in the Connect using Nortel Contivity VPN Switch group, select the **Enter Subject Name in LDAP Format** check box. Make sure that the order of the elements matches the order from the switch, for example:

LDAP Format	Certificate Information
CN	Name
S	State
C	City
OU	Department
O	Company

Workaround: The Nortel switch's firmware version 3.5 or later, with Keep Alives disabled is required. If a message regarding invalid hash length appears in the Log View, this means that the keep alive feature is enabled. The Keep Alives option is controlled through the IPsec section of the Group profile. The menu item in IPsec is called Enable Client Failover Tuning.

- **PPPoE software for DSL connections must be installed and operational before the client is installed.**

Description: Installing PPPoE software on a computer that the client is already on removes some network components.

Workaround: If the computer doesn't have the client installed, install the PPPoE software before you install the client. If the client is already installed, uninstall, and save the IPsec policy when prompted during the uninstall. After your computer reboots, install the PPPoE software, and then install the client again.

- **Compatibility issue with 3Com Smart Agent software**

Description: If the 3Com Smart Agent software is installed before the client is installed, the client doesn't operate correctly.

Workaround: Install the Smart Agent software before installing the client

- **Errors when the gateway sends certificates with more than 1024 bits to a client without the Microsoft Enhanced CSP**

Description: Log Viewer errors and connection failures occur on the client when the gateway sends certificates larger than 1024 bits on computers that don't have a 128bit version of Internet Explorer installed. Log errors can't acquire enhanced provider verify context, and signature verification fails.

Workaround: For gateways that send certificates larger than 1024 bits to the client, upgrade to the 128-bit version of Internet Explorer, which include the Microsoft Enhanced CSP.

- **Automatic certificate selection may not work in Aggressive Mode.**

Description: Because Aggressive Mode sends an ID payload in the first initiator packet, and no explicit certificate is selected, the session may fail. The client make a best guess, and selects the first certificate that meets the specified ID type, such as DN, email, or IP address. This certificate, however, may not be a valid certificate.

Workaround: Manually select the certificate when using Aggressive Mode, or limit your certificates to one in the Certificate Manager.

- **Compatibility issues with EarthLink software**

Description: The client is incompatibility with EarthLink Internet software, version 5.02.

Workaround: EarthLink can still be accessed through a standard dial-up networking configuration. Uninstall the EarthLink software. EarthLink Technical Support is aware of the situation; contact EarthLink for help in setting up a standard dial-up configuration for EarthLink access.

- **Compatibility issues with Sony Vaio and 3COM 3CCFE575CT CardBus PC Card**

Description: The 3COM 3CXFE575CT 10/100 LAN CardBus PC Card isn't compatible with Sony Vaio notebook computers; after the client is installed, the computer requires an Ethernet cable to be attached to boot. This NIC card works fine in other computers..

Workaround: Use hardware profiles to disable the NIC card, or remove the NIC card when the computer isn't attached to the network.

- **On Windows 95/98/Me, the Entrega USB has problems with suspend/standby.**

Description: The Entrega USB has problems when returning from suspend mode in that the interface is not always present.

Workaround: Unplug the adapter, and then plug it back in.

- **AOL 6.0 Compatibility**

Description: AOL 6.0 software has installation problems on Windows 95/98/SE/Me system with DNE. The AOL installation continuously reinstalls TCP/IP and asks to be restarted.

Workarounds: Try one of these:

- ③ Boot into safe mode, remove DNE, and continue with the AOL install. After AOL is installed, reinstall DNE. AOL will still ask to be restarted on every startup; click No, and AOL work just fine.
- ③ Upgrade to AOL 7.0. On Windows XP using native XP PPPoE connections, if an AOL 7.0 upgrade is performed on the client is installed, repair the client. This will correct the PPPoE settings that AOL overwrites.

- **RequestLocalAddress failure and dialup interfaces are not detected properly in the Log Viewer on clients that also have the Nortel client installed and DN is bound to the Nortel IPSECSHM**

Description: Cannot connect using Windows 2000 and XP RAS connections when DN is bound to the Nortel IPSECSHM.

Workaround: In the Windows Device Manager, if the IPSECSHM - Deterministic Network Enhancer Miniport is disabled, the dialup interface will be detected properly and sessions will establish.

Addressed Issues

Priority	Classification	Definition
C	Critical	No reasonable workaround exists
H	High	Reasonable workaround exists
M	Medium	Medium level priority problems
I	Inconvenient	Lowest level priority problems
E	Enhancement	New or changed feature request

In Version 1.2.1 (Build 10)

Issue #	Priority	Synopsis
QA004745	H	Client doesn't guard for NAT-D payload overflow.
QA004746	H	Client doesn't guard against buffer overflow in HASH_R processing.
QA004747	H	Client doesn't guard against attribute payload overflow.
QA004748	H	Client packet log may contain extraneous characters.
QA004749	L	Client pop-up menu may be missing lower Manual Connection separator.
QA004750	M	Client doesn't handle mode config collisions correctly on Windows XP.
QA004751	L	Multiple quick modes during VA session with WINS configuration
QA004752	M	MTU settings can result in packet loss. Introduced WAN MTU adjust settings for all NT platforms.
QA018746	L	On Windows NT, the VA connectoid may be created with PPTP Port Spec.

In Version 1.2.0 (Build 32)

Issue #	Priority	Synopsis
4005	E	Add mechanism to prevent the creation of duplicate connection names.
4103	H	Cannot enter and save PSK on Windows XP; error encrypting PSK.
4161	E	Add inventoring interfaces process after VA hang up to eliminate residual active VA adapters with no SA.
4162	E	Maintain VA while processing Initial Contact and in responder mode.
4170	M	In remote party ID, with Connect using checked, the wrong default ID types are listed.
4173	H	TDES and DES with Manual Keys fail with all hash alg. "Error importing outbound key entry"
4556	H	RGW connections are not recognized in manual connections.
4667	H	Clients using VRS (Internal IP) with no VA cannot pass fragmented UDP traffic.
4668	H	NSIadapssl32v30.dll included with client is not compatible with Sun or IPlanet 5.1 or later.
4676	H	Interface detection failure on RAS devices introduced after reboot.
4677	H	Quick Mode starting before Extended Authentication completes.
4678	H	Multiple XAUTH prompts are presented to user when XAUTH is not completed.
4679	H	CA certs imported into the personal cert store with IE cause Cert Mgr crash when opening the personal (CA) cert.
4704	H	Windows 2000 and XP Net Login Error 5719 in event viewer causes single sign-on applications to fail. Modified to defer RAS loading until either a point-to-point interface is detected or VA activation is required.
4705	H	Secure All types of manual connections to 2nd or 3rd connection tries to establish a connection to the 1st connection. Modified manual initiation processing to avoid initiating inappropriate connection for multiple Secure All configurations.
4721	H	RSA Secure-ID Passcode is truncated for Secure-ID.
4733	H	Windows 2000 and XP DNE MTU Adjust doesn't accommodate enough overhead for all connection types.

In Version 1.1.1 (Build 14)

Issue #	Priority	Synopsis
4858	H	Double and Triple XAUTH prompt occurs on connections that failover to a RGW.
4892	H	Enternet PPPoE client doesn't work with client when using the virtual adaptor, non VA connections work as expected.
5183	H	Unable to release and renew IP addresses or renewals of DHCP leases fail with the firewall build.
5221	H	VPN.exe causes fatal application error when running vpn.bat from a command prompt.
5367	H	Auto-retrieval of MSCEP certificate does not work
5419	H	SPDedit Gateway IP address box remains enabled after un-checking Connect Using box
5454	H	SpdEdit incorrectly chooses 1st cert with same label, regardless of container ID
5458	H	IPSecMon crashes when retrieving policy or certificate
5435	I	VA settings are not retained when moving within various screens in the policy editor without saving first.
5437	I	Secure All and Secure Other Connections display the manual connect option when first selected or clicking the Secure radio button.
5438	I	Ghost Save and RGW buttons after importing an unlocked policy over a locked policy; unable to save any changes or add RGW.
5443	I	SPDedit Other Connections ID type set to Any Gateway IP Address remains enabled after clearing the Connect Using check box
5457	I	Client loads wrong spi when AH and ESP proposed in the same policy

Known Issues

Priority	Classification	Definition
C	Critical	No reasonable workaround exists
H	High	Reasonable workaround exists
M	Medium	Medium level priority problems
I	Inconvenient	Lowest level priority problems

This is a list of the issues known at time of release:

All Open Issues are prioritized and addressed in future releases when possible. Known issues listed in the previous release note in the Known Issues section are still present in this release unless listed in the Addressed Issues section.

Issue#	Priority	Synopsis
QA018812	I	Windows XP log-off causes intermittent ifcfg.exe Application error. Description: When logging off of Windows XP, you may intermittently receive ifcfg.exe application error. Workaround: Disregard this error, the log-off will complete as expected.
4506	I	Can't specify an interface and use the Virtual Adapter Description: If the Internet Interface in the MY ID section of a connection is set to something other than Any, a VA connections will fail with the following errors: • 15:26:52.998 Failure finding or creating filter entry • 15:26:53.008 Failure finding or creating filter entry • 15:26:53.008 Key download failed. • 15:26:53.008 Error downloading key. • 15:26:53.008 Failed loading the keys Workaround: Set the Internet Interface for the effective connection to Any or set VA to disabled.

Issue#	Priority	Synopsis
4606	M	Windows XP "Digital signature not found" for crypto OSD adapter during install. Description: Selected option to install Device Connect Authentication and Remote Upgrade for install of client. During install on Windows 2000 received "Digital Signature not Found" for Crypto OSD Adapter. Workaround: Select OK to continue past message, and install will complete successfully.
4657	H	SCEP Request to SMC CA with an underscore in the common name causes the CN to be corrupt. Description: SCEP request to SMC in the clear causes with an underscore in the CN causes the Common Name to be corrupt after retrieval. The Common Name retrieved is a # sign followed by a long numeric string. Workaround: Only use numeric and alphanumeric characters for the CN during SCEP request.
4687	I	Windows 9x: Dial-up VA Required sessions complete even when VA isn't created Description: When attempting a dial-up VA session with only one dial-up adapter present on the machine (i.e., improper configuration), the IPsec SA completes even though the VA adapter is not added. The log shows a virtual interface constructed but no message for virtual adapter added. Workaround: Verify that two dial-up adapters are present on the machine before attempting dial-up VA sessions.
4933	H	Unable to Map drives on Windows NT with Enternet 1.5 PPPoE software over a secure connection. Description: System hangs when trying to map a drive over a secure PPPoE connection and may require a system restart. Workaround: The client will Map drives using RASPPPoE software. Get this from this free download link: http://user.cs.tu-berlin.de/~normanb/#Download
5317	H	Manual connect fails when connecting to a subnet via a gateway set to Hostname or an RGW on Windows 9X. Description: Manual connect on Windows 9x platforms to a remote subnet (or range) specified with an address, which is apparently (by address class) a subnet address, will report a RequestLocalAddress failure. This is because Windows 9X will not generate traffic to such addresses. Workaround: Initiate traffic to establish the tunnel such as a ping, web, email, or FTP traffic.

Issue#	Priority	Synopsis
5318	H	<p>Error updating filter record when saving a policy with an Internet Interface on connections that have RGWs specified.</p> <p>Description: Log Viewer reports "Error updating filter record" when specifying an Internet Interface on connections that have RGWs specified. Workaround: Do not specify an Internet Interface on connections that have RGWs. Use the manual connect only option or specify "any" Internet Interface.</p>
5395	H	<p>Route add fails when using the VA and both peers are NAT'd and the private IP addr. on both nets are the same</p> <p>Description: In a NAT'd environment, if both private networks have the same address space (in the test it is 172.16.x.x 255.255.0.0), the phase 1 completes as expected. When the mode config attributes are applied, the VA is created, but when the route add is issued (route add 10.100.200.254 mask 255.255.255.255 172.16.50.1), it fails with error code (0000003A). Workaround: If the VA is not used, the connection works as expected. If the mode config address and the physical address are not on the same logical subnet, the VA works as expected.</p>
5444	I	<p>Non-Admin Logon SCEP request will not retrieve the RA Certificate</p> <p>Description: If logged on as Non-Admin, the Import Personal Cert window remains open with no prompt or error message after attempting to place the cert in the local machine store, which is the default setting in Advanced properties. Workaround: Open the Advanced tab in the SCEP request form, and uncheck the box to place certificate in local machine store if logged on as non-admin when importing a personal cert.</p>
5446	I	<p>Non-admin login Personal Cert Import displays no error message after attempt to place cert in local machine store</p> <p>Description: If logged on as Non-Admin, the Import Personal Cert window remains open with no prompt or error message after attempting to place the cert in the local machine store due to the check box. Workaround: The check box for Place cert in local machine store should be unchecked if logged on as non-admin when importing a personal cert.</p>

DNE Known Issues and Workarounds

This is a list of the issues known at time of release for DNE 2.2.0, extracted from the DNE release notes.

- **Windows NT-disabled protocols are enabled when DNE is installed**

Description: On Windows NT 4.0 only, if protocols are disabled, and you install DNE, the protocols become enabled.

Workaround: Disable the protocols through the Control Panel or remove the protocols after installing DNE.

- Windows NT Plug and Play Drivers

Description: Windows NT doesn't support Plug and Play even on laptops running whose manufacturers attempted to create Windows NT Plug and Play support through a custom utility. DNE can't work with these custom, non-standard, non-NDIS-compliant utilities.

Workaround: Disable the utility and obtain the latest NIC driver from the vendor (not the special prepackaged one that the laptop vendor supplies with the utility).

- The client is incompatible with the ATT Dialers' VPN component

Description: The VPN component included with the ATT dialer is incompatible with DNE.

Workaround: Clear the VPN component check box when installing the ATT dialer.