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# **Nortel VPN Client—Installation and Upgrades**



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## Preface

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This guide provides information about how to install or upgrade the Nortel VPN Client (NVC) for Windows Vista, Windows XP, and Windows 7.

Topics include:

- basic client installation
- custom client installation
- support for NVG

This guide is intended for network managers who are responsible for setting up client software for the VPN Router. This guide assumes that you have the following background

- experience with Windows operating systems or graphical user interfaces (GUI)
- familiarity with network management

For more information about configuring and monitoring the VPN Router, see *VPN Router Configuration — Basic Features* (NN46110-500).

## Before you begin

The minimum PC requirements for running the VPN Client are:

- Windows XP, Windows Vista, or Windows 7
- 1 GHz 32-bit (x86) or 64-bit (x64) processor
- 1 GB of system memory
- 40 GB hard drive with 15 GB of available space

## Text conventions

This guide uses the following text conventions:

angle brackets (< >)	<p>Indicate that you choose the text to enter based on the description inside the brackets. Do not type the brackets when entering the command.</p> <p>Example: If the command syntax is <b>ping &lt;ip_address&gt;</b>, you enter <b>ping 192.32.10.12</b></p>
<b>bold Courier text</b>	<p>Indicates command names and options and text that you need to enter.</p> <p>Example: Use the <b>show health</b> command.</p> <p>Example: Enter <b>terminal paging {off   on}</b>.</p>
braces ({ })	<p>Indicate required elements in syntax descriptions where there is more than one option. You must choose only one of the options. Do not type the braces when entering the command.</p> <p>Example: If the command syntax is <b>ldap-server source {external   internal}</b>, you must enter either <b>ldap-server source external</b> or <b>ldap-server source internal</b>, but not both.</p>
brackets ([ ])	<p>Indicate optional elements in syntax descriptions. Do not type the brackets when entering the command.</p> <p>Example: If the command syntax is <b>show ntp [associations]</b>, you can enter either <b>show ntp</b> or <b>show ntp associations</b>.</p> <p>Example: If the command syntax is <b>default rsvp [token-bucket {depth   rate}]</b>, you can enter <b>default rsvp</b>, <b>default rsvp token-bucket depth</b>, or <b>default rsvp token-bucket rate</b>.</p>
ellipsis points (. . .)	<p>Indicate that you repeat the last element of the command as needed.</p> <p>Example: If the command syntax is <b>more diskn:&lt;directory&gt;/...&lt;file_name&gt;</b>, you enter <b>more</b> and the fully qualified name of the file.</p>

<i>italic text</i>	Indicates new terms, book titles, and variables in command syntax descriptions. Where a variable is two or more words, the words are connected by an underscore. Example: If the command syntax is <b>ping</b> <ip_address>, ip_address is one variable and you substitute one value for it.
plain Courier text	Indicates system output, for example, prompts and system messages. Example: File not found.
separator ( , )	Shows menu paths. Example: Select Status, Health Check.
vertical line (   )	Separates choices for command keywords and arguments. Enter only one of the choices. Do not type the vertical line when entering the command. Example: If the command syntax is <b>terminal paging {off   on}</b> , you enter either <b>terminal paging off</b> or <b>terminal paging on</b> , but not both.

## Related publications

For more information about the VPN Router, refer to the following publications:

- Release notes provide the latest information, including brief descriptions of the new features, problems fixed in this release, and known problems and workarounds.
- *Nortel VPN Router Configuration — Basic Features* (NN46110-500) introduces the product and provides information about initial setup and configuration.
- *Nortel VPN Client — Configuration* (NN46110-509) provides information about required tasks to configure the client software.
- *Nortel VPN Router Security — Servers, Authentication, and Certificates* (NN46110-600) provides instructions to configure authentication services and digital certificates.
- *Nortel VPN Router Configuration — Firewalls, Filters, NAT, and QoS* (NN46110-601) provides instructions to configure the Stateful Firewall and VPN Router interface and tunnel filters.
- *Nortel VPN Router Configuration — Advanced Features* (NN46110-502) provides instructions to configure advanced LAN and WAN settings, PPP, frame relay, PPPoE, ADSL and ATM, T1CSU/DSU, dial services and demand services, DLSw, IPX, and SSL VPN.
- *Nortel VPN Router Configuration — Tunneling Protocols* (NN46110-503) provides information to configure the tunneling protocols IPsec, L2TP, PPTP, and L2F.
- *Nortel VPN Router Configuration — Routing* (NN46110-504) provides instructions to configure BGP, RIP, OSPF, and VRRP, as well as instructions for configuring ECMP, routing policy services, and client address redistribution (CAR).
- *Nortel VPN Router Troubleshooting — Server* (NN46110-602) provides information about system status and logging, emergency recovery, and troubleshooting tools. This document also provides troubleshooting information for connectivity and performance problems.
- *Nortel VPN Client — Troubleshooting* (NN46110-701) provides information to troubleshoot connectivity problems with the client.
- *Nortel VPN Router Using the Command Line Interface* (NN46110-507) provides syntax, descriptions, and examples for the commands that you can use from the command line interface (CLI) on the VPN Router.

- *Nortel VPN Router Configuration — TunnelGuard* (NN46110-307) provides information to configure and use the TunnelGuard feature.
- *Nortel VPN Router Installation and Commissioning* (NN46110-306) provides information to configure hardware options for interoperability.
- *Nortel VPN Router Security and Administration* (NN46110-603) provides information about system administrator tasks such as password management and system backup. This document also provides information about the Simple Network Management Protocol (SNMP) and serial interface connections.
- *Nortel VPN Router Upgrades — Server Software Release 8.0* (NN46110-407) provides information about required tasks to upgrade the server software.

## Hard-copy technical manuals

To print selected technical manuals and release notes free, directly from the Internet, go to [www.nortel.com/documentation](http://www.nortel.com/documentation). Find the product for which you need documentation, then locate the specific category and model or version for your hardware or software product. Use Adobe Reader to open the manuals and release notes, search for the sections you need, and print them on most standard printers. For more information about a free copy of the Adobe Reader, go to the Adobe Systems Web site: [www.adobe.com](http://www.adobe.com).

## How to get help

This section explains how to get help for Nortel products and services.

## Finding the latest updates on the Nortel Web site

The content of this documentation was current at the time the product was released. To check for updates to the latest documentation and software for VPN Client, click one of the following links:

Link to	Takes you directly to the
<a href="#">Latest software</a>	Nortel page for <b>VPN Client</b> software located at: <a href="http://www130.nortelnetworks.com/cgi-bin/eserv/cs/main.jsp?cscat=SOFTWARE&amp;resetFilter=1&amp;poid=10621">www130.nortelnetworks.com/cgi-bin/eserv/cs/main.jsp?cscat=SOFTWARE&amp;resetFilter=1&amp;poid=10621</a>
<a href="#">Latest documentation</a>	Nortel page for <b>VPN Client</b> documentation located at: <a href="http://www130.nortelnetworks.com/cgi-bin/eserv/cs/main.jsp?cscat=DOCUMENTATION&amp;resetFilter=1&amp;poid=10621">www130.nortelnetworks.com/cgi-bin/eserv/cs/main.jsp?cscat=DOCUMENTATION&amp;resetFilter=1&amp;poid=10621</a>

## Getting help from the Nortel Web site

The best way to get technical support for Nortel products is from the Nortel Technical Support Web site:

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

This site provides quick access to software, documentation, bulletins, and tools to address issues with Nortel products. From this site, you can:

- download software, documentation, and product bulletins
- search the Technical Support Web site and the Nortel Knowledge Base for answers to technical issues
- sign up for automatic notification of new software and documentation for Nortel equipment
- open and manage technical support cases

## Getting help over the phone from a Nortel Solutions Center

If you do not find the information you require on the Nortel Technical Support Web site, and you have a Nortel support contract, you can also get help over the phone from a Nortel Solutions Center.

In North America, call 1-800-4NORTEL (1-800-466-7835).

Outside North America, go to the following Web site to obtain the phone number for your region:

[www.nortel.com/callus](http://www.nortel.com/callus)

## Getting help from a specialist by using an Express Routing Code

To access some Nortel Technical Solutions Centers, you can use an Express Routing Code (ERC) to quickly route your call to a specialist in your Nortel product or service. To locate the ERC for your product or service, go to:

[www.nortel.com/erc](http://www.nortel.com/erc)

## **Getting help through a Nortel distributor or reseller**

If you purchased a service contract for your Nortel product from a distributor or authorized reseller, contact the technical support staff for that distributor or reseller.



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## New in this release

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The following section details what's new in *Nortel VPN Client — Installation and Upgrades* (NN46110-412) for this Release.

- [“Support” on page 17](#)
- [“Single installer” on page 17](#)

## Features

### Support

This release provides support for the following Windows operating systems (including single/dual processor and 32/64 bit versions):

- Windows 7 – Home Basic, Home Premium, Professional, Enterprise, Ultimate
- Windows Vista – Home Basic, Home Premium, Business, Enterprise, Ultimate
- Windows XP – Home, Professional, Tablet

### Single installer

There is a single NVC installer (one each for 32 and 64 bit) for the supported operating systems.

For more information see, [“Client installation” on page 19](#).



# Client installation

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This chapter provides information about how to install the Nortel VPN Client (NVC) for the supported operating systems.

This chapter includes the following topics:

- [“Installing NVC using the installation wizard” on page 20](#)
- [“Installing NVC in silent mode” on page 21](#)
- [“Use the options in Table 2 “Silent installation” on page 24 to control the level of user interaction when you install the NVC.” on page 24](#)

NVC installers are in two formats, compressed and uncompressed. The NVC installer kits are:

- NVC32-10.04.011.exe — Nortel VPN Client for 32-bit (self- extracting)
- NVC64-10.04.011.exe — Nortel VPN Client for 64-bit (self- extracting)
- NVCCustKit32-10.04.011 — Nortel VPN Client for 32-bit (customizable CD-ROM kit)
- NVCCustKit64-10.04.011 — Nortel VPN Client for 64-bit (customizable CD-ROM kit)

For more information on how to install the NVC with the custom kit, see [“Client customization” on page 27](#).

## Installing NVC using the installation wizard

You can install the NVC by using a wizard that guides you through the installation process.

Install the NVC by performing the following:

- 1** Double-click the executable or MSI file. The Nortel VPN Client splash window (for MSI) and or Welcome window appears.
- 2** Click **Next**. The License Agreement window appears.
- 3** Click **I accept the terms in the license agreement**, and then click **Next**. The Custom Setup window appears.
- 4** Do one of the following:
  - a** If you want to install the NVC without Pre-Logon Access Provider (PLAP), ensure that PLAP is not selected, and then click **Next**. The Ready to Install the Program window appears.
  - b** If you want to install PLAP, click **PLAP** and select the checkmark, then click **Next**. The Ready to Install the Program window appears.

If you want to install the NVC in a different directory other than the default directory, click **Change**. The Change Current Destination Folder window opens. The defaults paths for the NVC are

- 32-bit — C:\Program Files \Nortel\Nortel VPN Client\.
- 64-bit — C:\Program Files (x86)\Nortel\Nortel VPN Client\.

- 5** Click **Install**.

The Installing Nortel VPN Client window appears and the program features you selected begin installing. When the installation is complete, the InstallShield Wizard Completed window appears.

- 6** Click **Finish**. Your NVC is now installed.

Table 1 “NVC service settings” on page 21 lists the installed NVC service with the following settings.

**Table 1** NVC service settings

Service name	NvcSvcMgr
Display name	Nortel VPN Service
Description	Nortel VPN Client Service
Start up type	Automatic
Log on as	LocalSystem

## Installing NVC in silent mode

You can install the NVC from a command line without using the Wizard. You run the MSI or executable by using the command line with options and parameters.

MSI allows the passing of public properties through a command line. The executable kit can forward options to msixec.exe with the /v switch. By using a command line, you can pass through the product installation path and feature selection for both kits.

This release also provides the Pre-Logon Access Provider (PLAP). A PLAP is a special type of credential provider that allows you to make a network connection before logging on to your PC.

PLAP does not reuse an existing tunnel. If an existing tunnel is detected, you are prompted to disconnect the tunnel first before continuing. If your domain logon fails, you are prompted to try again if the policy allows. If you choose to give up the logon attempt, or do not acknowledge the user interface for 60 seconds, the tunnel disconnects.

**Note:** PLAP feature is available only on Windows Vista and Windows 7.

For more information on configuring PLAP, see *Nortel VPN Client — Configuration* (NN46110-509).

## Domain Logon on XP

NVC provides PLAP feature for domain logon on Vista and Windows 7 operating systems. On XP, domain logon can be achieved through “Two-Step logon” which is explained below.

- 1 User logs on to the machine using local account
- 2 Launch NVC in administrator mode
- 3 Go to **Edit the Profile dialog** and then click **Manage Options** dialog.
- 4 To set the log-off behavior, check the Display the warning message if the VPN tunnel is still up option
- 5 Bring up tunnel
- 6 Manually log-off operating system. Tunnel will be maintained by NVC service component.

User logs back in using a domain account. This time, the logon authentication will be done through the tunnel with the Active Directory on the domain.

The PLAP feature has an INSTALLLEVEL of 200. You can set the installation to a number larger than 200 to select all features. Setting it to a number between 1 and 199 excludes PLAP.

To run a MSI package silently, enter the following command line:

```
msiexec /i "Nortel VPN Client.msi" /qn
```

Place the MSI file name between quotes.

To run the single executable package silently, enter the following command line:

```
NVC32-10.04.xxx.exe /s /v"/qn"
```

To install PLAP using msiexec.exe, enter the following command:

```
msiexec /i "Nortel VPN Client.msi" INSTALLLEVEL=300
```

To install PLAP using Nvc.exe, enter the following command:

```
Nvc.exe /v"INSTALLLEVEL=300"
```

To exclude PLAP from installing when using `msiexec.exe`, enter the following command:

```
msiexec /i "Nortel VPN Client.msi" INSTALLLEVEL=50
```

To exclude PLAP from installing when using `Nvc.exe`, enter the following command:

```
Nvc.exe /v"INSTALLLEVEL=50"
```

Do not use a in `/v"/qn."`

When you use the `/q` or `/quite` option, the MSI hides the User Account Control (UAC) dialog for confirming administrative permission. In this scenario, MSI performs the installation only if the command is Run as Administrator.

Use the options in [Table 2 “Silent installation” on page 24](#) to control the level of user interaction when you install the NVC.

**Table 2** Silent installation

Options	Parameters	Meaning
/q	n b r f	<p>Sets user interface level. The following are parameter meanings</p> <ul style="list-style-type: none"><li>• q , qn — No UI</li><li>• qb — Basic UI. Use qb! to hide the Cancel button.</li><li>• qr — Reduced UI with no modal dialog box displayed at the end of the installation.</li><li>• qf — Full UI and authored FatalError, UserExit, or Exit modal dialog boxes at the end.</li><li>• qn+ — No UI except for a modal dialog box displayed at the end.</li><li>• qb+ — Basic UI with a modal dialog box appears at the end. The modal box is does not appear if the user cancels the installation. Use qb+! or qb!+ to hide the Cancel button.</li><li>• qb— Basic UI with no modal dialog boxes. /qb+- is not a supported UI level. Use qb-! or qb!- to hide the Cancel button.</li></ul> <p>The ! option is available with Windows Installer 2.0 and works only with basic UI and is not valid with full UI.</p>



# Client upgrades

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This chapter provides you with the information needed when making an upgrade for the Nortel VPN Client (NVC) from a previous version.

This chapter includes the following topics:

- [“Upgrading from previous NVC versions”](#)
- [“Preserving existing option settings during upgrades”](#)

## Upgrading from previous NVC versions

NVC 10.04 installer supports upgrade install from NVC 10.01.

NVC installer does not support upgrade of legacy NVC (versions earlier than version 10.01, including version 6.07). When an installed legacy NVC version is detected, NVC installer opens a dialog box prompting you first to uninstall the legacy version and reboot the machine. Then you can install NVC 10.04.

The NVC 10.01 installer does not detect legacy NVC versions. If you mistakenly installed an NVC legacy version on a Windows Vista or Windows 7 machine, and then you installed NVC 10.01 on the same machine, you must perform the following procedure to install NVC 10.04.

- 1 Uninstall NVC 10.01.
- 2 Reboot the machine.
- 3 Repair the legacy NVC version:
  - a Select Control Panel (in Classic view) > Programs and Features.
  - b From the list, right-click on the legacy NVC version, and then select Repair.
- 4 After the repair is complete, uninstall the legacy NVC version.
- 5 Reboot the machine.
- 6 Install NVC 10.04.

## Preserving existing option settings during upgrades

During an upgrade installation, the installer preserves the following configuration data unless the PreserveConfig key is set to False:

- current user profiles
- current user configuration
- global user profiles
- default user configuration
- machine configuration

For more information on configuring the PreserveConfig key, see [“Customizing NVC using the NvcSetup.ini” on page 29](#).

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## Client customization

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This chapter provides information about how to customize the installation of the the Nortel VPN Client (NVC) on Windows XP, Windows Vista, and Windows 7 operating systems.

This chapter includes the following topics:

- [“Customizing NVC using the NvcSetup.ini” on page 29](#)
- [“Customizing the Nortel VPN Client.msi” on page 30](#)
- [“Customizing profiles” on page 30](#)
- [“Customizing configuration data” on page 36](#)
- [“Customizing machine configuration data” on page 38](#)
- [“Customizing icons” on page 40](#)
- [“Customizing images” on page 42](#)

You use custom installation to change the default settings of the NVC to settings that are more applicable for your business. For example, you can change a default tray icon to your corporate icon, or you can preconfigure profiles so that when the NVC is installed, your preconfigured profiles are included.

NVC customizations separate into install time behaviours and run time (or post install time) behaviours.

For install time behaviors, you place their switches into the NvcSetup.ini file. The installer then parses the file at install time. You customize install time behaviors by editing the NvcSetup.ini before installation. The install time behavior can also be customized by command lines and direct modification to the MSI kit.

For run time behaviours, you place their switches, including profiles, into the configuration files. The installer then copies those files to the correct paths. You customize configuration data and profiles by directly modifying those files before installation. Those files are not parsed during install time.

Before installing the kit, customize one of the NVC options shown in [Table 3 “Install customization” on page 28](#), by choosing one of the following methods:

- If applicable, edit the file directly in the NVCCustKit32-10.04.xxx or NVCCustKit64-10.04.xxx.
- Create an .ini file, profile data file on your PC using an installed NVC and then copy these files into the NVCCustKit (32 or 64).

See [Table 3 “Install customization” on page 28](#) when choosing customization options.

**Table 3** Install customization

NVC customization	NvcSetup.ini	Command line	Direct modification
Product Installation path	ProductFolder	INSTALLDIR	Nortel VPN Client.msi
Product name	ProductName		Nortel VPN Client.msi
Feature selection		INSTALLLEVEL Setting a number larger than 200 selects all features. Setting a number between 1 and 199 excludes the PLAP.	Nortel VPN Client.msi
Profile preservation	PreserveConfig		
Profiles and configurations <ul style="list-style-type: none"><li>• user profiles</li><li>• user configuration</li><li>• per machine configuration</li><li>• global profiles</li><li>• default user configuration</li></ul>			NVCCustKit (32 or 64) files <ul style="list-style-type: none"><li>• NvcProfiles_u.dat</li><li>• NvcUserConfig_u.dat</li><li>• NvcMachineConfig.dat</li><li>• NvcProfiles_a.dat</li><li>• NvcUserConfig_d.dat</li></ul>

**Table 3** Install customization

NVC customization	NvcSetup.ini	Command line	Direct modification
NVC bitmaps and icons			NVCCustKit files <ul style="list-style-type: none"> <li>• globemark.png</li> <li>• ico00001.ico</li> <li>• ico00002.ico</li> <li>• ico00004.ico</li> <li>• ico00005.ico</li> <li>• ico00006.ico</li> <li>• ico00007.ico</li> <li>• ico00008.ico</li> <li>• ico00009.ico</li> <li>• idr_main.ico</li> <li>• NVCDialog.png</li> <li>• NVCSimpleDialog.png</li> <li>• NVCStatus.png</li> </ul>
Program menu shortcut folder			Nortel VPN Client.msi
Desktop shortcut name			Nortel VPN Client.msi

## Customizing NVC using the NvcSetup.ini

NvcSetup.ini can contain certain switches for NVC installation behavior control. By default, the file is not included in the kits. When necessary, you can create an NvcSetup.ini and insert it into the NVCCustKit (32 or 64) under the same directory with the Nortel VPN Client.msi.

NvcSetup.ini contains a single section of [NVC\_INSTALL].

Edit the NvcSetup.ini by changing one or more of the following keys:

- **ProductName** — product name. Type a product name that displays on the executable.
- **PreserveConfig** — preserves the current profile and configuration data. Type True or False.
- **ProductFolder** — the product installation path. Type a path name to direct installation to the folder of your choice.

The following is an example of the NvcSetup.ini:

```
[NVC_INSTALL]
ProductName=My Product Name
PreserveConfig=True
ProductFolder="C:\Program Files\My Product Name"
```

## Customizing the Nortel VPN Client.msi

You set the values of parameters in the Property table of the MSI database. You can modify the MSI file using Orca or other tools when changing one or more of the following items in the package's property table:

- **INSTALLDIR** — product installation path. Type the new path for the installation directory.
- **ProductName** — product name. Type a unique name that displays on the executable.
- **INSTALLLEVEL** — feature selection. Type a unique name to display as a feature name.

## Customizing profiles

A profile is a set of configuration data specific to one VPN connection. You find it stored as a section in a text file with a .dat extension. You can find the profiles in the following storage areas:

## Public profiles

NvcProfiles\_a.dat is the file for the public profiles.

You create public profiles mainly for when you are using pre-logon and do not have access to a local user directory on the machine before being logged on. You can find the NvcProfiles\_a.dat file in the [CSIDL\_COMMON\_APPDATA]Nortel\Nortel VPN Client\ directory, a public directory that is available to all local users.

A typical path is:

```
C:\Documents And Settings\ All Users\Application Data\Nortel\Nortel  
VPN Client (for Windows XP)
```

```
C:\ProgramData\Nortel\Nortel VPN Client (for Vista and Windows 7)
```

When you use NVC during pre-logon, modification to global profiles is disabled. After you are logged on, you can create, change or delete public profiles if you run the NVC as an administrator as shown in [Table 4 “Customizing profiles” on page 32](#) unless the NvcProfiles\_a.dat file is listed in the NoFileChange entry during NVC installation.

The following methods can create this file:

- Installed by install kit, either as an empty file (by default) or a customized file.
- Migrated from an upgrade install.
- Created through the GUI by logged-on users when the first public profile is created.

## Private profile file

NvcProfiles\_U.dat (U for user) is the filename for the private profile.

You use the default private profile file to initialize a user's private profile file when they first run the NVC. You can find the NvcProfiles\_U.dat file in the [CSIDL\_COMMON\_APPDATA]Nortel\Nortel VPN Client\ directory.

A typical path is:

C:\Documents And Settings\<User>\Local Settings\Application Data\Nortel\Nortel VPN Client (for Windows XP)

C:\ProgramData\Nortel\Nortel VPN Client (for Windows Vista and Windows 7)

The following methods can create this file:

- Installed by installation kit and is either an empty file (by default) or a customized file.
- Migrated from upgrade install.

Before installing the NVCCustKit (32 or 64) kit, customize public and private profiles by choosing one of the following methods:

- Edit the file directly in the NVCCustKit (32 or 64).
- Create a profile on your PC using an installed NVC, and then copy these files into the NVCCustKit (32 or 64).

Use the information in [Table 4 “Customizing profiles” on page 32](#) to help you customize profiles.

**Table 4** Customizing profiles

Entry name	Allowed values (Default value in bold)	Configurable from GUI	Tunnel Type	Customize	Description
AllowSavePassword	<b>True</b> False	N	IPSec	N	Allow save password



**Table 4** Customizing profiles

Entry name	Allowed values (Default value in bold)	Configurable from GUI	Tunnel Type	Customize	Description
AuthType	<b>UsernamePassword</b>	Y	IPSec	Y	User name or Password authentication
	Radius		IPSec		Radius authentication
	ChallengeResponse		IPSec		Challenge Response
	ResponseOnlyHW		IPSec		Hardware response only
	ResponseOnlySW		IPSec		Software response only
	CertMS		Both		MSCAPI certificate authentication
	LoginService		SSL		SSL authentication
CertificateAltNameType	<b>None</b>	Y	Both	Y	Type of certificate subject alternative name
	Email				
	DNS				
	IPAddress				
CertificateName	Certificate name	Y	Both	Y	MSCAPI Certificate name
Description	Description	Y	Both	Y	Description about the profile
DestPort		Y	SSL	Y	NVG port for SSL tunnel
DestServer	Hostname IP address	Y	Both	Y	NVR or NVG name or IP address
DialupEntry		Y	Both	Y	Dial-up entry name
EntityName	User name	Y	Both	Y	User name or certificate name
EntityPass	password	Y	Both		Encrypted password or PIN
EntityPass2	password	Y	Both		Second encrypted password or PIN for authentication with SSL logon service
FailoverList	<server1>,<server2>, ..., <serverN>	N	Both	Y	List of DestServer separated by comma (.). NVC will failover to the DestServer(s) one by one until a tunnel establishes or the list has been exhausted
FailoverProfile	Profile name	Y	Both	Y	Name of the failover profile

**Table 4** Customizing profiles

Entry name	Allowed values (Default value in bold)	Configurable from GUI	Tunnel Type	Customize	Description
GroupID	Group name	Y	IPSec	Y	Group ID for Radius (or LDAP) authentication
GroupPass	Group password	Y	IPSec	Y	Encrypted group password for Radius (or LDAP) authentication
KeepAliveType	NoKeepalives	Y	IPSec	Y	No keep alives
	<b>ActiveKeepalives</b>		IPSec		<b>ActiveKeepalives</b> — Dead peer detection.
	PassiveKeepalives		IPSec		PassiveKeepalives — No Dead peer detection
LoginServiceName		Y	SSL	Y	SSL logon service name
PostLaunchArguments		Y	Both	Y	Parameters for the module defined in the PostLaunchFileName
PostLaunchFileName		Y	Both	Y	Posttunnel launched application file name
PreLaunchArguments		Y	Both	Y	Parameters for the module defined in the PreLaunchFileName
PreLaunchFileName		Y	Both	Y	Pretunnel launched application file name
PreLaunchTimeOut		Y	Both	Y	Pretunnel launched application time out
ProfileName	Profile name	Y	Both	Y	Profile name
ProxyExceptions		Y	SSL	Y	Servers that users do not want to proxy when accessing
ProxyPort		Y	SSL	Y	SSL Proxy server port.
ProxyServer		Y	SSL	Y	SSL Proxy server IP or DNS name
SavePassword	True False	Y	IPSec	Y	Password saved or not
TunnelType	IPSec	Y	IPSec	Y	Tunnel type
	SSL	Y	SSL	Y	
UsePasscode	True False	Y	SSL		Using passcode — PIN + Token code

**Table 4** Customizing profiles

Entry name	Allowed values (Default value in bold)	Configurable from GUI	Tunnel Type	Customize	Description
UseProxyServer	<b>None</b>	Y	SSL		No proxy server
	Custom				Uses proxy server information configured in NVC GUI
	Browser				Uses proxy server information configured in Internet Explorer
UseSecondPassword	True False	N	SSL		Use second password for SSL tunnel authentication
UseSoftwareToken	True False	Y	SSL		Use RSA SecurID software token.

## Customizing configuration data

User configuration data are those generic settings applicable to all tunnels and the NVC during an individual user's logged on session. You can find the set of user configuration data stored in the [user config] section of the user configuration file.

NVC has two types of user configuration files, one for private use and one for public use.

### Private configuration file

NvcUserConfig\_u.dat is the file for the private configuration file.

Only a current logged on user has access to the private configuration file. You can find the NvcUserConfig\_u.dat file in the [FOLDERID\_LOCALAPPDATA]\Nortel\Nortel VPN Client\ directory.

A typical path is

```
C:\Documents And Settings\ All Users\Application Data\Nortel\Nortel
VPN Client (for Windows XP)
C:\ProgramData\Nortel\Nortel VPN Client (For Windows Vista and
Windows 7)
```

Current logged on users can update their own private user configuration unless the NoChangeProfiles equals to true. NoChangeProfiles reside in the Machine configuration file.

### Default user configuration file

NvcUserConfig\_d.dat (d for default) is the file name for the default configuration file.

The default configuration file shares the same file format with the private user configuration. You can find the NvcUserConfig\_D.dat file in the [FOLDERID\_PROGRAMDATA]\Nortel\Nortel VPN Client\ directory that is accessible to all users.

A typical path is

C:\Documents And Settings\ All Users\Application Data\Nortel\Nortel  
VPN Client (for Windows XP)  
C:\ProgramData\Nortel\Nortel VPN Client (for windows Vista and  
Windows 7)

When a user logs on to NVC for the first time, the default user configuration file copies over as the user's private user configuration file, enabling the user to update their private file.

To customize private or default configuration files, choose one of the following methods:

- Before installing the NVCCustKit (32 or 64), edit the file directly in the NVCCustKit (32 or 64).
- Create a profile on your PC using an installed NVC, and then copy these files into the NVCCustKit (32 or 64).

Use the information in [Table 5 “User configuration files parameters”](#) on page 37 to help you customize configuration data.

**Table 5** User configuration files parameters

Entry name	Allowed values (Default value in bold)	Configurable from GUI	Customize	Description
CertificatekeyUsage	True <b>False</b>	Y	Y	Displays only those certificates with key usage of digital signature.
CertificateAutoSelect	True <b>False</b>	Y	Y	Autoselects a certificate to use.
CertificateUseFriendlyName	True <b>False</b>	Y	Y	Select certificates by user friendly name.
DumpPacketInClearText	True <b>False</b>	Y	Y	Send unencrypted packet content to debugger in hex format

**Table 5** User configuration files parameters

Entry name	Allowed values (Default value in bold)	Configurable from GUI	Customize	Description
ForceDialupDisconnect	True <b>False</b>	Y	Y	If set to true, dial-up disconnects when the tunnel is disconnected.
LastUsedProfile		Y	N	Last profile used by current user.
StatusInDetail	True <b>False</b>	N	Y	Displays detailed tunnel status in the status dialog.
StatusOnTop	True <b>False</b>	N	Y	Enables the status window stay on top of the desktop.

## Customizing machine configuration data

Machine configuration data are those generic settings applicable to tunnels and to NVC working on a local machine. The machine configuration data is in the [MachineConfig] section of NvcMachineConfig.dat.

You can find the NvcMachineConfig.dat file in the [FOLDERID\_PROGRAMDATA]\Nortel\Nortel VPN Client\ directory.

A typical path is:

```
C:\ProgramData\Nortel\Nortel VPN Client\NvcMachineConfig.dat
```

To customize machine configuration, choose one of the following methods:

- Before installing the NVCCustKit (32 or 64), edit the file directly in the NVCCustKit (32 or 64).
- Create a profile on your PC using an installed NVC, and then copy these files into the NVCCustKit (32 or 64).

Use the information in [Table 6 “Machine configuration file parameters”](#) on [page 39](#) to help you customize machine configuration data.

**Table 6** Machine configuration file parameters

Entry name	Allowed values (Default value in bold)	Configurable from GUI	Customize	Description
AesDisabled	True <b>False</b>	N	Y	Disables AES support. Setting to True disables AES.
ConfigLaunchEnabled	<b>True</b> False	N	Y	Allows the user to configure the AppLaunch.
DisableDialup	True <b>False</b>	N	Y	Disable dial-up option in the profile edit dialog.
DisableIkePort500Use	True <b>False</b>	N	Y	If set to true, the NVC uses a dynamic port instead of port 500 for IKE.
DisableLoggingConfig	True <b>False</b>	N	Y	If set to True, you cannot configure logging from the NVC UI. The default is False and allows you to configure logging.
DisallowNonProfileConnections	True <b>False</b>	N	Y	Prevents from using profile-based tunneling in CLI mode.
DisconnectOnLogoffs	True <b>False</b>	Y	Y	Disconnects the active VPN tunnel when the user logs off from Windows.
LockKeepAlives	True <b>False</b>	N	Y	Prevent from changing the KeepAlive option in the profile edit dialog.
LogLevel	DISABLED FATAL ERROR WARNING <b>INFO</b> DEBUG	Y	Y	Severity levels of logging messages.
LogoffWarning	True <b>False</b>	Y	Y	Displays a warning message when a user logs off from Windows while the VPN tunnel is still running.

**Table 6** Machine configuration file parameters

Entry name	Allowed values (Default value in bold)	Configurable from GUI	Customize	Description
MSCAPIServerCRLCheck	True <b>False</b>	Y	Y	If the MSCAPI server CRL checking is set to True, then the client performs a CRL check against the Server certificate chain. If set to False or missing, the client does not perform CRL checking against the Server certificate chain.
NoChangeProfiles	True <b>False</b>	N	Y	Restricts modifications to client profiles from the NVC. You cannot add new profiles and users can change only the dial-up numbers (if appropriate), their user name and password (if appropriate, tokencode or pin fields), certificate and password. If set to True, you can only use the prepackaged profile files, and you cannot add new profiles.

## Customizing icons

You use the custom NVC icon facility by inserting your corporate icons in place of the existing icons for the NVC. These icons include indicators for activities such as sending or receiving data or establishing a connection.

You can create icon images in whatever style you prefer; however, the Nortel icons that convey a message for the given action, such as data transfer activity or establishing a connection, are best replaced with icons that convey the same message.

Perform the following steps to create a custom icon:

- 1 Create a 16- or 8-color icon with the corresponding pixel size.
- 2 Name the icon with a Nortel icon name.



- 3 Copy the new icon to the \NVCCustKit32-10.04.xxx\program files\Nortel\Nortel VPN Client\Images directory.

Use the information in [Table 7 “Customizable icons” on page 41](#) to help you customize icons.

**Table 7** Customizable icons

Nortel icon name	Pixel size	Description
ico00001.ico	16 x 16	NVC is running, but no data is currently transferring.
ico00002.ico	16 x 16	Data is both transmitting and receiving through the tunnel.
ico00004.ico	16 x 16	NVC is transmitting data through the tunnel.
ico00005.ico	16 x 16	NVC is receiving data into the tunnel.
ico00006.ico	32 x 32	Group icon showing activity during the NVC connection process in first of four postions.
ico00007.ico	32 x 32	Group icon showing activity during the NVC connection process in second of four postions.
ico00008.ico	32 x 32	Group icon showing activity during the NVC connection process in third of four postions.
ico00009.ico	32 x 32	Group icon showing activity during the NVC connection process in fourth of four postions.
idr_main.ico	256 x 256 48 x 48 32 x 32 16 x 16	Application executable icon.

## Customizing images

You use the custom NVC image facility to insert your corporate images in place of the existing images for the NVC. This section describes how to insert custom images used by the About NVC window and NVC dialog boxes.

Perform the following steps to create a custom image:

- 1 Create a color image with the corresponding pixel size.
- 2 Name the image with a Nortel image name.
- 3 Copy the new image to the \NVCCustKit32-10.04.xxx\program files\Nortel\Nortel VPN Client\Images directory.

Use the information in [Table 8 “Customizable images” on page 42](#) help you customize images.

**Table 8** Customizable images

Nortel image name	Pixel size	Description
globemark.png	32 x 32 32-color	About NVC window image.
NVCDialog.png	149 x 647 24-color	Manage Profile, View Logs, and Manage Options dialog boxes image.
NVCSimpleDialog.png	193 x 351 24-color	NVC main GUI image.
NVCStatus.png	358 x 40 8-color	NVC Status Monitor image.

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