



**STORMSHIELD**



**STORMSHIELD NETWORK SECURITY**  
STORMSHIELD NETWORK VPN CLIENT STANDARD

# RELEASE NOTES

Version 6

Document last updated: January 3, 2024

Reference: [sns-en-vpn\\_client-release\\_notes-v6.87](#)



# Table of contents

Change log .....	3
Compatibility .....	4
SN VPN Client Standard 6.87.210 .....	5
Known Issues .....	6
Documentation resources .....	7
Downloading this version .....	8
Previous versions of SN VPN Client Standard 6 .....	9
Contact .....	35

In the documentation, Stormshield Network VPN Client Standard is referred to in its short form: SN VPN Client Standard.

This document is not exhaustive and minor changes may have been included in this version.



## Change log

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Date	Description
January 3, 2024	Changes to section "SN VPN Client Standard 6.87.210"
December 19, 2023	New document



# Compatibility

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## Stormshield Network Firewall

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3.7, 3.11 et 4.x

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## Operating systems

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Windows 10 on Intel 64-bit processors  
Windows 11 on Intel 64-bit processors

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### **i** NOTE

Version 6.64 of the SN VPN Client Standard is still available and supports Windows 7 32/64-bit, Windows 8 32/64-bit and Windows 10 32-bit on Intel processors.

## ANSSI *Diffusion Restreinte* (DR) mode on SNS firewalls

SN VPN Client Standard is not compatible with the ANSSI *Diffusion Restreinte* (DR) mode in SNS 4.2 versions upwards.

## Compatibility of configuration files

VPN configuration files from previous versions of the software cannot be imported into this version once it is installed. If a previous version of the software is already present, this installer will automatically convert the previous configuration and import it into the new software.

When upgrading from a previous version, we therefore recommend that you do not uninstall the previous version before you launch the installer.



# SN VPN Client Standard 6.87.210

## Features, improvements, vulnerabilities, fixes since release 6.87 build 108

### Vulnerabilities

- Includes a security fix to prevent a privilege escalation on Windows operating systems. Details on this vulnerability can be found on our website <https://advisories.stormshield.eu/2023-034/>.

### Bug Fixing

- When using multiple smartcards, fixes an issue where a tunnel would be closed unexpectedly upon removing a smartcard that is not used with the VPN Client,
- Fixes support for press and hold right-click to open the contextual menu for Windows in tablet mode,
- Fixes an issue where the systray menu gave access to the **Configuration Panel** despite the option to restrict panel access to administrators being set.

## Major changes since version 6.64

### Exclusive support for Windows 11 and Windows 10 64-bit on Intel processors

For more information, refer to the section on [Compatibility](#).

### Compatibility of configuration files

For more information, refer to the section on [Compatibility](#).

### Gateway certificate check

By default, the gateway certificate will be checked each time a tunnel is opened. It may be necessary to import the complete chain of certification authorities (CAs) to authenticate the gateway, either into the Windows store or into the VPN configuration file.

You can change this default behavior, though we do not recommend doing so (Options menu -> PKI Options).

### End of support for "weak" algorithms

For security reasons, this version no longer supports the following algorithms: DES, 3DES, MD-5, SHA-1, DH 1-2, DH 5. If a previous configuration contains one of these algorithms, the installer will convert them to "auto" (automatic negotiation with the gateway).

If the gateway only supports this type of algorithm, you will not be able to establish a connection with this version of the SN VPN Client Standard.



## Known Issues

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The up-to-date list of the known issues related to this SN VPN Client Standard version is available on the Stormshield [Knowledge base](#). To connect to the Knowledge base, use your [MyStormshield](#) customer area identifiers.



## Documentation resources

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The technical documentation resources are available in the documentation base on the [Stormshield technical documentation](#). We suggest that you rely on these resources for a better application of all features in this version.

Please refer to the Stormshield [Knowledge base](#) for specific technical information and to watch videos that the TAC (Technical Assistance Center) has created.



## Downloading this version

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### Going to your MyStormshield personal area

You need to go to your [MyStormshield](#) personal area in order to download the 6.87 version of SN VPN Client Standard:

1. Log in to MyStormshield with your personal identifiers.
2. In the left panel, select **Downloads**.
3. In the right panel, select the relevant product and version.

### Checking the integrity of the binary files

To check the integrity of SN VPN Client Standard binary files:

1. Enter one of the following commands and replace `filename` by the name of the file you want to check:
  - Linux operating system: `sha256sum filename`
  - Windows operating system: `CertUtil -hashfile filename SHA256`
2. Compare with hashes provided on [MyStormshield](#) personal area, section **Downloads**.



## Previous versions of SN VPN Client Standard 6

In this section, you will find the new features, resolved vulnerabilities and fixes from previous versions of SN VPN Client Standard 6.

6.87.108		Improvements	Vulnerabilities	Bug Fixing
6.86.015	Features	Improvements		Bug Fixing
6.64.003	Features	Improvements		Bug Fixing
6.63.005				Bug Fixing
6.63.001				Bug Fixing
6.62.002	Features	Improvements	Vulnerabilities	Bug Fixing
6.44.003	Features	Improvements		Bug fixing
6.41.003	Features	Improvements		Bug fixing
6.40.004	Features	Improvements		Bug fixing
6.30.002	Features	Improvements		Bug fixing
6.21.001		Improvements		Bug fixing
6.20.006	Features	Improvements		Bug fixing
6.12.002	Features	Improvements		Bug fixing
6.08.003	Features	Improvements		Bug fixing



# SN VPN Client Standard 6.87.108

## Major changes since version 6.64

### Exclusive support for Windows 11 and Windows 10 64-bit on Intel processors

SN VPN Client Standard is optimized for Windows 11 and Windows 10 64-bit and can only be installed on these Operating Systems. Version 6.64 of the SN VPN Client Standard is still available and supports Windows 10 32-bit, Windows 7 and Windows 8 (32/64-bit) on Intel processors.

### Compatibility of configuration files

#### ! IMPORTANT

VPN configuration files from previous versions of the SN VPN Client Standard cannot be imported into this version once it is installed. If a previous version is already present, this installer will automatically convert the previous configuration and import it into the new version.

When upgrading from a previous version, we therefore recommend that you do not uninstall the previous version before you launch the installer.

### Gateway certificate check

By default, the gateway certificate will be checked each time a tunnel is opened. It may be necessary to import the complete chain of certification authorities (CAs) to authenticate the gateway, either into the Windows store or into the VPN configuration file.

You can change this default behavior, though we do not recommend doing so (Options menu -> PKI Options).

### End of support for "weak" algorithms

For security reasons, this version no longer supports the following algorithms: DES, 3DES, MD-5, SHA-1, DH 1-2, DH 5. If a previous configuration contains one of these algorithms, the installer will convert them to "auto" (automatic negotiation with the gateway).

If the gateway only supports this type of algorithm, you will not be able to establish a connection with this version of the SN VPN Client Standard.

## Features, improvements, vulnerabilities, fixes since release 6.86 build 015

### Vulnerabilities

- Updates OpenSSL to version 1.1.1n to increase security level. Details on this vulnerability can be found on our website <https://advisories.stormshield.eu/2022-014/>,
- Includes a security fix to prevent buffer overflow on response from activation server. Details on this vulnerability can be found on our website <https://advisories.stormshield.eu/2022-013/>.

### Improvements

- Support for multiple smart cards/tokens with CNG,
- **Connection Panel** is now displayed automatically upon startup.



## Bug Fixing

- Fixes an issue that prevented SN VPN Client Standard from quitting in some rare cases,
- PIN caching now works when logging back in after locking session,
- Fixes an issue with RSA/SHA512 certificates,
- Fixes a rare crash in **Connection Panel** when quitting,
- Fixes a DPD issue after a retransmission,
- CA no longer disappears after unchecking EAP pop-up,
- Fixes a Local ID issue during authentication,
- Activation now works in https,
- DNS modifications on physical interface are now applied after virtual IP change during SA Auth Rekey,
- Default driver registry keys are now set during update,
- Fixes an issue with Yubikey 5 NFC,
- Fixes invalid syntax when sending cipher proposals in OpenVPN automatic mode,
- Fixes an IKEv2 fragmentation issue when using AES-GCM,
- Fixes an IKEv2 fragmentation issue when resending lost packets,
- Fixes an issue in the **Connection Panel** that only closed the tunnel the first time a token is removed,
- All *tgbcodes\*.dat* and *tgparams\*.dat* files are now copied during an upgrade,
- Fixes *OSACheck* issue and disabled *OSACheck* upon uninstall,
- Fixes an issue that erased license file when upgrading from 6.6x to 6.86 with a new license,
- Cisco configuration files (.pcf) are no longer supported and are no longer suggested in the configuration file explorer window,
- Fixes an issue when reading the subject of a certificate encoded in BMPString.



# SN VPN Client Standard 6.86.015

## Important information

### Exclusive support for Windows 11 and Windows 10 64-bit on Intel processors

This version of the SN VPN Client Standard is optimized for Windows 11 and Windows 10 64-bit and can only be installed on these Operating Systems. Version 6.64 of the SN VPN Client Standard is still available and supports Windows 10 32-bit, Windows 7 and Windows 8 (32/64-bit) on Intel processors.

### Encrypted configuration files

VPN configuration files that have been encrypted using versions of the SN VPN Client Standard prior to 6.86 cannot be imported into the Configuration Panel.

During a software update, the installer will convert the existing configuration before it automatically imports the file into the Configuration Panel.

### Gateway certificate check

By default, the gateway certificate will be checked each time a tunnel is opened.

It may be necessary to import the complete chain of certification authorities (CAs) to authenticate the gateway, either into the Windows Store or into the VPN configuration file. You can change this default behavior, though we do not recommend doing so (Options menu > PKI Options).

### End of support for vulnerable algorithms

For security reasons, this version no longer supports the following algorithms: DES, 3DES, MD-5, SHA-1, DH 1-2, DH 5. If a previous configuration contains one of these algorithms, the installer will convert them to "auto" (automatic negotiation with the gateway).

If the gateway only supports this type of algorithm, you will not be able to establish a connection with this version of the SN VPN Client Standard.

## Features, improvements, vulnerabilities, fixes since release 6.64 build 003

### Features

- New MSI installer which supports updates of previous versions, including recovery of license, VPN security policy and installation parameters,
- Optimized for Windows 11 and Windows 10 on Intel 64-bit processors,
- Authentication of the gateway's certificate,
- Support for RFC 4754 - method 9: EC-DSA on secp256r1 elliptic curve with SHA-256,
- Support for RFC 4754 - method 10: EC-DSA on secp384r1 elliptic curve with SHA-384,
- Support for RFC 4754 - method 11: EC-DSA on secp521r1 elliptic curve with SHA-512,
- Support for RFC 7427 - method 14: Digital Signature Authentication RSA,
- Support for RFC 6023 - Initiation IKE Childless,
- Support for RFC 4304 - Extended Sequence Number (ESN),
- Support for CNG (Microsoft Crypto API: Next Generation),



- Support for Lz4 compression,
- VPN security policy access restricted to Windows administrator (specific password no longer needed).

### Improvements

- Removal of vulnerable algorithms: DES, 3DES, MD-5, SHA-1, DH 1-2, DH5,
- Removal of deprecated Microsoft API CSP support for tokens/smartcards in IKEv2,
- Stronger protection of VPN configuration using SHA-2,
- Updated OpenSSL to version 1.1.1l,
- After connected to a redundant gateway, the next time the tunnel is opened, the SN VPN Client Standard tries to switch back to the main gateway.

### Bug Fixing

- Tunnel now closes when smartcard reader is pulled out,
- Corrected an issue that sometimes created sockets on port 500/4500 when not required.



## SN VPN Client Standard 6.64.003

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Features, improvements, vulnerabilities, fixes and known issues since release 6.63 build 005.

### Features

- Update OpenSSL to 1.1.1,
- IKEv2 Multiple Phase 2.

### Improvements

- Possibility to modify the coordinates of the GINA window, and also the *"foreground"* mode.

### Bug Fixing

- WinStore roaming with *"keyusage"* and *"dnpattern"* doesn't work properly,
- EAP Multiple Auth tunnel opens without certificate,
- *"No socket"* error after resume from standby/hibernation,
- *TgbLogonUI*: When renegotiating IKEv2 Auth tunnel, displayed state is not correct,
- Multiple networks on several tunnels are not working properly on single virtual IP,
- DistVPN should handle several PKCS#11 *DLL* providers,
- No traffic with AESGCM for particular packet sizes.



## SN VPN Client Standard 6.63.005

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Features, improvements, vulnerabilities, fixes and known issues since release 6.63 build 001.

### Bug Fixing

- When GINA mode is enabled, the configuration panel may sometimes be empty (no VPN tunnel) after Windows restart.
- Crash when receiving a gateway certificate which contains a specific *SubjectAltName*.



# SN VPN Client Standard 6.63.001

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Features, improvements, vulnerabilities, fixes and known issues since release 6.62.

## Bug Fixing

- The *Incorrect Password* error message no longer appears when updating a previous installation if the configuration panel access is locked by a password.
- Setting a GUI password no longer prevents the interface from being accessed.



# SN VPN Client Standard 6.62.002

Features, improvements, vulnerabilities, fixes and known issues since release 6.44.

## Features

- Display "No CRL" instead of "No CA" in console when appropriate,
- New URL for customized release,
- VPN Tunnel Fallback (for example: automatic fallback from an IPsec tunnel to an SSL tunnel when IPsec tunnel fails),
- Implementation of administration and system logs, with ability to produce administration logs either locally, to the Windows Event Manager or to a Syslog Server,
- Windows Store Certificate Roaming: Ability to select automatically the user certificate from the Windows Certificate Store, based on criteria (like for smartcards),
- Ability to select and store multiple CA (Certificate Authority) in the VPN Configuration,
- Support of Elliptic curve Diffie-Hellman (Diffie-Hellman group 19, 20, 21) for IKEv2,
- Support AES-GCM & AES CTR algorithms for IKEv2,
- Update OpenSSL library version,
- SSL: Add a way to change the receive socket buffer size (SO\_RCVBUF),
- SSL: Support of multiple remote networks,
- Option to disable DPD IKEv2,
- IKEv2: Support of multiple networks in the same remote TS, in CP mode,
- Global redesign of the interface (Configuration Panel) with a clearer organization of the configuration tabs (new "advanced" tab, homogenization of the tabs between IKEv1, IKEv2 and TLS),
- Ability to configure wait time for gateway responses (timeout was previously set to 5 sec.),
- Support of IAS smartcard,
- Support of ID Prime MD smartcard,
- Support of Gemalto MD smartcard ATR,
- Set ERRORLEVEL on /add, /replace, /importance commands,
- Support of Microsoft Signing for W10 drivers,
- Prevent tunnels to work when several users are logged simultaneously,
- When rekeying, asking for X-Auth credentials is now configurable,
- Time-out on token PIN Code pop-up,
- Handling of PKCS8 (in addition to PKCS1) Private Key format,
- Fragmentation of IkeV1 based on MS-IKE doc.

## Improvements

- Improvement of the CA handling in the Windows Certificate Store,
- Handling of uppercase/lowercase certificates "name" OID,
- IKE Port change are supported for more gateways configurations,
- Optimize VPN configuration loading and saving,
- Gina mode : Progress bar for IKEv2 and SSL enhanced,



- DPD, lifetime and IKE Ports are configurable for each tunnel,
- IKEv2 doesn't support PKCS#8 private key format, but only PKCS#1,
- Remote Sharing : RDP is not opened automatically from configuration panel,
- "vpnconf /stop" doesn't work from another user session,
- PIN code is no more asked when the phase 1 is already up.

## Vulnerabilities

- Possibility of a man-in-the-middle attack via the use of a CA stored in the Windows certificate store,
- Ability to start a browser for captive portal authentication disabled,
- Certificate date validity can be bypassed through the use of GeneralizedTime format,
- DOS upon malformed certificate reception,
- DOS while the software is in trace mode, with a UDP packet flood,
- Some padding bytes of the VPN configuration file signature can be patched,
- Crash upon malformed SA reception,
- Listen port 1194 was open even if not required.

## Bug Fixing

- BSOD: Crash in ForwardIPPacket when using FwpsQueryPacketInjectionState0,
- BSOD after VPN up,
- Smartcard roaming with different readers (smartcardroaming=5) doesn't work for IKEv1,
- Unable to enter a lifetime in the main interface,
- Display of a french button,
- Error upon certificate selection with keyusage = 3,
- With some specific PKI configuration, tunnel opens only once,
- IKEv2 Fragmentation issue: some fragment sizes lead to Auth Fail or Syntax Error,
- BSOD when receiving data in tunnel with a high rate,
- IKEv2 and TPM: Unable to import user certificate in internal store,
- DN pattern doesn't work properly for IKEv2,
- Remote ID mismatch on "DER ASN1 DN" with the same ASCII string,
- Virtual interface: bad handling of ARP table to add/remove gateway IP address,
- TLS Connection: renewal from gateway is not implemented, and tunnel closes after a while,
- Error with 6.4x VPN Configuration using certificates with accents on smartcards,
- Conversion tools: Ovpn2Tgb: verify-x509-name is not properly handled,
- IKEv2: Sometimes tunnel doesn't open, IKE Initialization fails (error with "0"),
- IKEv2 : No traffic to remote network.Virtuallrf error 1 - 209 - 5010,
- IKEv2 : Exporting a Single tunnel exports all Child SA,
- IKEv1: Tunnel is not deleted when XAuth fails during a Phase 1 renegotiation,
- Cannot open tunnel with a token inserted after the VPN Client starts,
- IKEv2 child SA is not removed when tunnel is closed for DPD timeout reason,
- IKEv2: no traffic when NATT port is changed for one tunnel, and UDP Encap enabled,



- IKEv2: IPV4 DNS not set properly when Gateway sends an IPV6 address,
- IKEv1 Traffic verification: 1st timer is not properly initialized,
- IKEv2: Fragmentation IKEV2 and DH algo set to auto => fragmentation is not selected,
- InjectP12 command: new cert not update when closing the session,
- IKEv2 Fragmentation issue: some fragment sizes lead to Auth Fail or Syntax Error,
- IKEv2: Sometimes tunnel doesn't open, IKE Init fails (error with "0"),
- Traffic issue when physical IP Address ends with .255 and virtual IP address = Physical IP address.



# SN VPN Client Standard 6.44.003

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Features, improvements, fixes and known issues since release 6.41.

## Features

- Support of Microsoft Signing for Windows 10 drivers.

## Improvements

- SSL VPN: Reception Socket buffer sizes are increased to accept traffic peaks.
- Improvement of the automatic software activation when the subscription is about to expire.
- Improvement of the software activation mechanism when activation errors occur.

## Bug Fixing

- Remote ID mismatch on "DER ASN1 DN" with the same ASCII string.
- IKEv2 - DPD handling: Tunnel closes when a DPD message is lost.
- IKEv2 - Child SA is not removed when tunnel is closed for DPD timeout reason.
- Cannot open tunnel with mixed SubjectAltName containing an IP address.
- IKEv1 - Traffic verification with pings does not work properly.
- No traffic when virtual IP address ends with .255.
- SSL VPN - When using TCP mode, the tunnel may close unexpectedly.
- Silent install is not silent on Windows 7.
- Bad certificate renewal used on the smart card.
- IKE SA renegotiation failed in a child SA.
- Error message "*Driver not signed*" when installing VPN Client on Windows 10 with UEFI BIOS Secure Boot option enabled.
- IKEv2 - With EAP and Multiple Auth, tunnel closes after key renewal
- IKEv2 - Multiple Auth: When changing an option in the IKE SA Tab, the certificate disappears.



# SN VPN Client Standard 6.41.003

Features, improvements, fixes and known issues since release 6.40

## Features

- Add a notification to let users know GINA mode will not work when VPN rules in USB.
- When mounting several tunnels at the same time, PIN code is asked several times
- PIN code requests mutualising when building several tunnels.

## Improvements

- TLS tunnel: TlsAuth option worked only with SHA1 Authentication algorithm. TlsAuth is now possible with all authentication algorithms (SHA256, SHA 512, etc.).
- TLS tunnel: TlsAuth option is also operational with key direction set to client or server.
- All opened tunnels are properly closed when Windows shutdowns quickly.

## Bug Fixing

- Wrong pincode error occurs during Phase1 renewal in some case.
- PIN code is asked at each Phase1 renewal
- Bad X-Auth password leads to a software error.
- Socket bind fails when executed too quickly after interface is up.
- Polish translation of the VPN Client.
- Correct default DPD values are set when importing a configuration without DPD.
- TgblkeNg not stopped on fast shutdown on Windows 10.
- Font size fix in the Connection Panel (title and open button).
- Windows 10: When the user session is locked, the VPN GINA is not displayed.
- Configuration with Virtual IP set to "::" doesn't work.
- No virtual interface when virtual IP is not specified and remote network is a range of address
- The Gateway Certificate CRL was checked despite this checking is disabled.
- Crash Ike on specific UNITY\_DEF\_DOMAIN values sent by the gateway (Mode config / Mode CP).



# SN VPN Client Standard 6.40.004

Features, improvements and fixes since release 6.30

## Features

- New design for the Connection Panel. This new design improves VPN Client user experience by simplifying the management of VPN connections. The New Connection Panel is fully configurable via a dedicated management window which enables to create, rename and sort VPN connections.
- Add a verification of the gateway certificate subject (SSL).
- Using WiFi networks sometimes requires a local authentication (via a captive portal). For users using the GINA Mode (VPN Connection before Windows logon), the VPN Client implements a new browsing window which allows the authentication on the captive portal before opening the tunnel.
- New "/status" command line option allows to retrieve the status of a tunnel.
- Support of IKEv2 Fragmentation (RFC 7383).
- Always-on: automatically re-open tunnel when DPD timeout is detected (IKEv1 & IKEv2).
- New certificate selection criteria: It is possible to configure a pattern to be found in the certificate subject.
- Always-on: automatically re-open tunnel when remote network is no longer accessible (IKEv1 & IKEv2).
- "No Split DNS": Ability to force the physical DNS server address to the value of the Virtual DNS Server address. This function solves communication slowness and confidentiality problems.
- "No Split Tunneling": Ability to disable default route on physical interface for all in tunnel configurations.
- New "/closeall" command line option (close all tunnels).
- New "/resetike" command line option.
- Mode Config / Mode CP: Support of Virtual network size sent by the gateway (by default /24 when not specified).
- Option to check the gateway certificate CRL in addition to its signature.
- Copy / paste of IKEv2 and SSL configurations.
- New customization of VPN Client.

## Improvements

- New parameters are backed up and restored during a software update.
- In accordance with the development of the new Connection Panel, the system tray menu has been simplified.
- Ability to disable the function "automatic close the tunnel on USB extraction". This option keeps the tunnel open even if the USB drive is removed from the computer.
- Improvement when handling IKEv1 phase 1 renegotiations with Mode Config.
- Improvement of the IKE Auth rekeying (IKEv2).
- Enhancement of the management of IKEv2 gateway renegotiations.



- "Reset IKE" (from console window) starts IKE daemon if it's not already started.
- Various software startup enhancements.
- Improvements when handling a large list of remote networks for SSL connections.
- Various improvements of messages displayed in the console.
- Systray icon is available after an explorer.exe restart.
- Ability to open an IKEv2 VPN tunnel when the Mode CP is not enabled and the virtual IP address is not set.
- Ability to uninstall the software when it is protected with a password.
- Improvement of the function "automatic tunnel opening on token insertion", with token owning several certificates with different subjects.
- Improvement of the IKE service stability.
- IKEv2 CP Mode: ability to specify a smaller remote network on client side.
- Detection traffic in Mode CP now supported with IKEv2.
- Various improvements in the GINA Mode.
- Improvement of the OpenVPN file importation.
- Improvement of the IPv6 management by IKEv2.
- Ability to open automatically a tunnel in GINA Mode.
- The PIN Code is required each time a tunnel is opened (or re-opened), even after a tunnel opening failure.
- Support of secondary Wins Server.
- Enhancement of the Configuration Panel Control Access security.
- A VPN tunnel correctly closes if the physical interface disappears. (IKEv1).
- Warning displayed in the Console when an outdated certificate is used in an IKEv2 configuration.
- Update German

## Bug Fixing

- Configuration Panel and Connection Panel synchronization improvement.
- Correct management of the virtual interface MTU.
- The Configuration Panel and the Connection Panel might appear simultaneously.
- Correction of the font in the activation window.
- Changing language led to address type duplication (in Child SA configuration).
- Deleting a ChildSA among N led to the alert: "An invalid argument was encountered".
- Support of UTF-8 character encoding for X-Auth password (requires a specific configuration).
- X-Auth Popup: Passwords containing ";" were not properly handled.
- A SA was closed too early when the lifetime is set in Kbytes from the Gateway.
- Improvement of the certificate subject parsing.
- IKEv2: When Mode CP is enabled, after tunnel is up, remote network is not properly displayed in VPNConf.
- Support of certificates containing multiple subjectaltnames (IKEv1).
- Wrong word on popup message.
- Missing word "confirm" on IKE V2 settings.





# SN VPN Client Standard 6.30.002

Features, improvements and fixes since release 6.21.

## Features

- Ability to hide the activation window which normally appears at the end of a subscription period.
- Windows 10 full compatibility
- New Token interoperability with Feitian epass2003 and gemalto/axalto .net
- New Ercom CryptoSmart Micro SD support for IKEv1, IKEv2 and SSL
- New Xiring Pinpad support for IKEv2 and SSL.
- After a 1st installation, a tip is displayed over the taskbar icon in order to show the user how to use the VPN Client.
- Logs can now be enabled from the Console.

## Improvements

- DPD mechanism improvement
- Ercom smartcard management improved with SSL
- Improvement of the .ovpn files conversion (OpenVPN configuration)
- Security of the tunnel opening is improved : when the gateway CA is unknown, the tunnel doesn't open.
- IKEv1 - DPD mechanism improvement: tunnel correctly closes on DPD failure and gateway renegotiation, DPD keeps on on network disconnection, DPD timers management is tuned.
- When a VPN Configuration is created with the Wizard, the default parameters are: DH Group = Auto and Aggressive Mode = TRUE (set)
- Smartcard management improvement
- Debug/Trace mode can be activated from any window/panel of the VPN Client (Configuration panel, connection panel or Console).
- Tunnel opening or closing process is stopped on IKE reset
- Compatibility between tunnel configured with VPN 5.5 and tunnel configured with VPN 6.2
- Integration of security update for OpenSSL (CVE-2015-0204, FREAK vulnerability fix)
- Windows IKEEXT cohabitation is correctly managed on Windows 8 / Windows 6.1 upgrade.

## Bug Fixing

- SSL error "TLS handshake failure: No CA" fixed by improving the management of CA check.
- IKEv1 erratic freeze fixed.
- Systray popup message for SSL tunnel fixed.
- Compatibility with 3rd party software such as firewall, anti-malware or antivirus.
- BSOD/Conflict with 3rd party software.
- Log files names are correctly updated on date changing.



- Launched in silent mode, the setup ended with a crash if a password greater than 15 characters was set in the command line. This bug is fixed.
- For a 2-DNS tunnel, the management of the second DNS is fixed.
- The wizard works when Client use only one protocol.



# SN VPN Client Standard 6.21.001

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Improvements and fixes since release 6.20.

## Improvements

- IKE tunnel closes more quickly on network disconnection.
- During a software update, the software activation can be processed within a VPN tunnel.
- Possibility to create a VPN configuration with multiple auth + EAP + certificate.
- (IKEv1) Phase1 closes (and can be re-open) as soon as the tunnel is closed by the gateway.
- VPN Client can open tunnels even if the Internet connection appears after it starts.
- (IKEv2) Local and Remote ID now display explicit "E-mail" instead "ID\_RFC822\_ADDRESS".

## Bug Fixing

- (IKEv1) "Initial contact" is not sent anymore upon tunnel renegotiation.
- Correct management of certificates containing an OID in the subject.
- Tunnel opening on traffic detection might not work after a restart of the VPN Client software.
- Cannot open an IKEv1 tunnel when switching from a network to another while VPN Client is running (on a workstation with two NICs).
- With Mode Config on IKEv1, Phase 2 establishment could fail.



# SN VPN Client Standard 6.20.006

Features, improvements and fixes since release 6.12

## Features

- New Certificate's OIDs supported.
- Support of nested tunnels between different protocols.
- New Configuration Wizards for IKEv2 and SSL tunnels.
- Support of the Ingenico "Leo" Pinpad.
- Possibility of certificate injection via a command line option (online certificate injection).
- Smartcard roaming support for IKEv2.
- Handle IKEv2 multi-proposals in order to simplify tunnel setup.
- [SSL] Support of TCP mode for the transport.
- [IKEv2] Automatic switch to PKCS#11 when middleware doesn't work in CSP mode.

## Improvements

- Dynamic display of Config Payload Mode informations for IKEv2/IPV6.
- Support of several Child SA per Initial SA.
- Improvement of token access speed.
- IKEv1: When the PIN code entry is canceled, the tunnel opening process is aborted.
- Allow to use a self-signed Root Certificate from Windows Certificate Store.
- USB Mode Confirmation popup only appears when required.

## Bug fixing

- With Mode Config on IKEv1, Phase 2 establishment could fails.
- DPD still working when "split tunneling" is enabled.
- IKEv1 "Automatic" mode works for Phase1 encryption when gateway reports AES.
- Modification of IKE port and NAT port (IKEv1 parameters) is fixed.
- Improvement of Token removal detection.
- [IKEv2] Import certificate with "DC" RDN from Windows Store fixed.
- [IKEv2] VPN tunnel properly opens when Certificate received from the VPN gateway is the same as the user Certificate.
- [IKEv2] VPN tunnel properly opens even if no Remote Id has been specified in the VPN Client.
- Windows firewall configuration correctly restored on uninstall.
- [IKEv2] Gemalto PKCS#11 middleware now available.
- VPNConf synchro issue when using USB Mode and autostart tunnel.
- Autostart USB tunnel error "No thread found to handle IKE version 1 packet" fixed.
- [DualToken] Fix on multiple partition token (automatic extraction detection).



# SN VPN Client Standard 6.12.002

Features, improvements and fixes since release 6.08

## Features

- Disable SHA-384 choice, SSL and IPsec IKEv2 VPN tunnel.
- IP address can change during renegotiation with VPN tunnel using IKEv2.
- SSL disabled.
- Support of IPv4 and IPv6 simultaneously
  - Ability to handle heterogeneous IPv4 and IPv6 networks on the LAN and WAN sides, either on corporate or user home networks. The feature 'Auto' (for IPv4/IPv6) enables to support those complex environments with IPsec (IKEv1/v2) or SSL VPN tunnels.
  - Ability to detect IPv4 or IPv6 network automatically for both IPsec and SSL VPN tunnels.
  - Ability to send IPv4 and IPv6 within the same tunnel.
- Support of IPsec and SSL/TLS simultaneously
  - Ability to open multiple SSL VPN tunnels with any VPN gateways supporting OpenVPN.
  - Introduction of two new user authentication mechanisms specific to SSL i.e. Mode TLSAuth and Extra Login/Password.
  - Auto adaptive capabilities to adapt to the SSL gateway settings automatically, assuming the gateway support multi proposal mechanism. The IT manager can disable this feature and force his own settings.
  - Ability to define a redundant SSL gateway in case of unavailability of the primary SSL gateway.
  - Ability to open SSL VPN tunnel on detection of traffic to the remote network.
  - Ability to start automation via scripts before/after tunnel opens or closes.
  - Ability to start a desktop sharing session with a machine on remote network in one click.
  - Ability to add traffic compression.
  - Inherits all IPsec encryption and hash algorithms from TheGreenBow VPN client (e.g. SHA1, SHA2, ..).
- Support of IPsec with IKEv1 and IKEv2 simultaneously
  - Ability to open IKEv1 and IKEv2 VPN tunnels simultaneously.
  - Ability to define a redundant gateway in case of unavailability of the primary gateway.
  - IKEv2 introduces a new user authentication mechanism called EAP similar to X-Auth. The new user authentication mechanism EAP can be combined with Certificate (i.e. select multiple Auth support in your VPN tunnel configuration > 'IKEv2 Auth' > 'IKE SA' tab. EAP replaces X-Auth when using IKEv2 VPN tunnel.
  - Auto adaptive capabilities to adapt to the gateway settings automatically, assuming the gateway support multi proposal mechanism. The IT manager can disable this feature and force his own settings.

## Improvements

- Support of TLS connection without user certificate.
- Prevent broadcast transfers to remote network.



- Support of all 3 addressing modes i.e. host, subnet and IP address range with IKEv2 VPN tunnels.
- Certificate Authority (CA) might or might not be specified when importing a P12 certificate within an IKEv2 VPN tunnel configuration.
- IKEv2 VPN tunnel supports an empty Remote ID and it is considered as 'Accept any ID from remote' as it does in IKEv1 VPN tunnels.
- New default Algorithms for Auto selections.
- Various text strings and user interface improvements.
- Various user interface improvements.
- VPN tunnel opens faster when using a certificate on a PKCS#11 Smartcard or Token.
- All settings in the 'Security' tab are set to 'Auto' mode when creating a new SSL VPN tunnel.
- User interface improvement for IPsec IKEv2 & IKEv1 VPN configuration:
  - Root tree strings "IKE V1 Configuration" & "IKE V2 Configuration" might be truncated.
- VPN tunnel IKEv2 and IPV6, replace mask with prefix length in the Child SA.
- New menu strings to create a Phase1 and Phase2 consistent between IKEv1 and IKEv2 now called 'New VPN Gateway' and 'New VPN Connection' accordingly.

## Bug fixing

- Certificate could not be imported from Windows Certificate Store.
- Import or export VPN Configuration to or from a mapped drive fails.
- Packets with a payload smaller than 24 bytes are dropped in IPv6 VPN tunnel, causing issues for FTP.
- Incoming packets ending with .255 on port 4500 are not handled properly.
- 'Tsocket message data type 0 could not be sent' error message preventing an IKEv1 VPN tunnel to open using an IPv6 IP address.
- VPN tunnel fails to open due to unknown OID from the Certificate (i.e. Object Identifier). Need to add 'GN' label for OID (i.e. Given Name).
- Pre Shared Key can be saved with shortcut 'Ctrl+S' without checking against the 'Confirm' field.
- Error "disagreement on PFS" when configured with 'Auto' for PFS in IKEv1 Phase2 (gateway specific).
- The VPN Client might crash if import a VPN configuration file modified with wrong parameters for a VPN tunnel configured using IKEv1.
- VPN tunnel imported which uses a port that no other tunnel is using, doesn't open properly.
- A new network interface is not detected when it becomes up.
- VPN tunnel configured with IKEv2 and IPv4 toward a VPN gateway configured with IPv6 VPN tunnel is not opening properly.
- VPN tunnel configured with IKEv2 and IPv6 toward a VPN gateway configured with IPv4 VPN tunnel is not opening properly.
- 'View Certificate' button is not working properly with VPN tunnel using IKEv2, after saving the VPN configuration.
- 'New Phase1' and 'Paste Phase1' menu from root tree not working properly.
- VPN configuration with IKEv2 can be saved although Remote Gateway field is empty.



- IKEv2 default parameters (IDs and Config Payload) are not properly setup when creating a new configuration.
- VPN tunnel with IKEv2 CHILD SA negotiation in IKE AUTH exchange with Diffie-Hellman.
- VPN tunnel with IKEv2, user must click twice on EAP button to have password enabled.
- VPN tunnel with IKEv2, Pre Share Key is empty after saving the VPN Configuration.
- VPN tunnel with IKEv2, the local/remote ID type of ID set to null is not working properly.
- VPN tunnel with IKEv1, Auto for Phase 1 doesn't work.
- VPN tunnel with IKEv1, X-Auth login/password popup is not working properly.
- Change in configuration from IPv6 to IPv4 in VPN tunnel within IKEv2 Child SA is not detected.
- VPN tunnel configured with IKEv1 and IPv4 toward a VPN gateway configured with IPv4, has no traffic if PFS=None and without NAT-T in Phase 1.
- VPN tunnel configured with IKEv2 and IPv4 toward a VPN gateway configured with IPv4, has no traffic if PFS=None.
- New buttons in the Configuration Panel root IKEv1, IKEv2 and SSL export all tunnels instead of particular branch tunnel.
- Both 'IKE SA' and 'Child SA' phases (equivalent to Phase1 and Phase2) renegotiation fails with IKEv2 VPN tunnels.
- Config Payload information in VPN tunnel configured with IKEv2 not displayed properly when tunnel opens or closes.
- Timeout of 30sec to monitor VPN tunnel opening might too short in some circumstances like using USB Token with a certificate protected by PIN, or large number of packet rejections.
- Word 'Static' appears in the Configuration Panel tree root IKEv1, IKEv2 and SSL.
- Texts of protocol description displayed in the Configuration Panel tree for each protocol (i.e. SSL, IPsec IKEv1, IKEv2) are not corrects.
- New buttons in the Configuration Panel root IKEv1, IKEv2 and SSL export all tunnels instead of particular branch tunnel.
- VPN tunnel using IKEv2 opens only once when LocalId is not filled in with certificate subject.
- The type IKEV2\_ID\_FQDN as remote ID Type is not yet supported.
- Several text typos in Configuration Panel 'Child SA' or Phase2 tabs.
- Phase renegotiation, on VPN tunnel with IKEv1, uses port 500 again instead of port 4500.
- Shortcut Ctrl+S doesn't save the remote sharing and Certificate store settings.
- Feature blocking traffic outside VPN Tunnel (i.e. Split tunneling) with IKEv2 and SSL VPN tunnels is not yet available.
- Notification FAILED\_CP\_REQUIRED with IKEv2 VPN tunnels received from the gateway closes the VPN tunnel unexpectedly.
- The 'Initial Contact' mechanism is not yet supported with IKEv2 VPN tunnels.
- VPN Configuration with IKEv2 and SSL is lost after transferring IPsec IKEv1 configuration to USB mode.
- Remote ID ID\_DER\_ASN1\_DN received from the gateway is not checked properly.
- Both 'IKE SA' and 'Child SA' phases (equivalent to Phase1 and Phase2) renegotiation fails with IKEv2 VPN tunnels.
- SHA2 in 'Child SA' tab is not available yet with IKEv2 VPN tunnels.
- DNS/WINS manual setup is not yet supported with IKEv2 VPN tunnels.





# SN VPN Client Standard 6.08.003

## Features

- Ability to enter a machine name instead of an IP address when adding a Remote Sharing entry (i.e. 'Phase2' > 'Remote Sharing').
- Support of IPv4 and IPv6 protocols.
- Support of Diffie-Hellman Group 15 (3072-bit), Group 16 (4096-bit), Group 17 (6144-bit), Group 18 (8192-bit).
- Support of 2 new SHA2 algorithm: SHA2-384, SHA2-512. The VPN Client now supports SHA256-96, SHA256-128, SHA2-384, SHA2-512.
- Support of multiple DNS servers (2) per VPN Tunnel. They can be configured manually or, received from the VPN gateway in Mode Config.
- Ability to add a DNS suffix to DNS server addresses.
- Ability to open a tunnel within another tunnel. This allows access your company network with a first gateway, and then access a second secured network within your company with a second gateway. Restriction: Mode Transport, and force all traffic in tunnel are not supported.
- Support of Windows Server 2008 32/64-bit, Windows Server 2012 32/64-bit, Windows Vista 32/64-bit, Windows Seven 32/64-bit, Windows 8 32/64-bit, Windows 8.1 32/64-bit. Note: Windows XP is no longer supported, please download the previous release for Windows XP support.
- Support of 25 languages including English, Arabic, Chinese simplified, Czech, Danish, Dutch, Farsi, Finnish, French, German, Greek, Hindi, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Serbian, Slovenian, Spanish, Thai, Turkish.

## Improvements

- Log files generated when user activate the Trace mode (Ctrl+Alt+D) are now deleted automatically if older than 10 days. Those files could become fairly big fairly quickly.
- More debug logs when user activates the Trace mode (Ctrl+Alt+D).
- Remove both buttons 'Apply' and 'Save' from the Configuration Panel. Save can be found in the menu 'Configuration' > 'Save', or Ctrl+S. Apply is automatic when the user clicks on 'Open tunnel'.
- When trying to upgrade to the latest release without Update Option, or if Update Option has expired (i.e. license to update to the latest release), the upgrade was previously blocked.
- Now, the user can choose to proceed or not (knowing that software activation might fail right after installation).

## Bug fixing

- Reception of fragmented packets in reverse order is not working properly.
- Bad DPD handling when DPD reply from the gateway is lost, and the VPN Client resend a new DPD sequence.
- IKE process (Tgblke) might crash when the IP address is changing.



- Packets with DF flag (i.e. Don't Fragment) are not handled properly in some specific circumstances.
- The button 'Add WINS' server stays enabled after VPN tunnel opens in Mode-Config.
- Alternate WINS server addresses are not applied to the Virtual Interface, and not showed in the VPN Client > 'Phase2 IPsec' > 'Advanced' tab after the VPN tunnel opens in Mode-Config.
- Wrong DNS server IP address format displayed after the VPN tunnel opens in Mode-Config.
- No connectivity to the DNS server when setting up an Alternative DNS in some very rare Windows configuration.
- Crash when using 'easyVPN' module in some circumstances. 'easyVPN' module allows to fetch a VPN Configuration on a VPN configuration server making VPN configuration update very easy for IT managers and users.
- License agreement is displayed in Spanish when choosing Italian during setup.
- IKE port and NAT ports not updated correctly upon VPN Configuration changes by user.
- Unable to open tunnel (Phase 2 not completed) when forcing NAT-T in Transport Mode in the VPN Configuration.
- DIR command (FTP protocol) doesn't work when trying to access a FTP server within a VPN tunnel, in some network circumstances.
- No systray icon (taskbar) when Windows starts or after sleep mode, in some Windows configurations.
- Multiple Phase1 with the same remote gateway addresses would not work properly.

## Known issues

- The VPN Client virtual network interface appears in "Unidentified network" list in Windows Control Panel (Network).
- In VPN Configuration with two VPN Tunnels with the same virtual IP address, DNS/WINS server address of the first VPN tunnel only is used. Workaround: use 2 different virtual IP addresses if DNS/WINS server addresses must be different for each VPN tunnel.
- Impossibility to join several networks at the same time when using vpn ssl feature.



## Contact

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