

LANCOM Release Notes

Advanced VPN Client Windows

4.14 Rel / 3.13 RU2

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1. Preface

The LANCOM Advanced VPN Client Windows provides mobile employees with encrypted access to the company network, whether they are at their home office, on the road, or even abroad.

This document describes the innovations within the Advanced VPN Client Windows software releases 4.14 Rel and 3.13 RU2, as well as the improvements since the previous versions.

The LANCOM Advanced VPN Client Windows supports Windows Vista, Windows 7, Windows 8, Windows 8.1, and Windows 10. The LANCOM Advanced VPN Client Windows 3.00 does no longer support Windows XP.

As from version 3.10, the client needs a license key of the same version for activation. Activation or update installation is no longer possible with an old license key. This applies from now on for every upcoming major version.

2. New features, changes, and history Advanced VPN Client Windows version 4.x

Advanced VPN Client Windows improvements in version 4.14 Rel Build 42039

Bugfixes / improvements

> **Check for Internet accessibility**

The continuous check of a connection medium for Internet accessibility by periodically sent pings to IP address 8.8.8.8 has been limited to four pings.

> **Optimizations for Hotspot authentication**

Miscellaneous optimizations have been made for Hotspot authentication, particularly with seamless roaming activated in the profile settings.

> **Credential Provider**

Using the NCP Credential Provider a user could gain access to the Windows explorer via the log window clicking its "Open file" button. Furthermore, it was possible to gain administrator rights within the Power Shell.

> **Deinstallation of the VPN Client**

In certain cases it could occur that the filter driver of the VPN client was not uninstalled properly.

> **IKEv1 / aggressive mode**

Issues could occur when using IKEv1 / aggressive mode with an automatic IKE policy.

> Improved handling of available connection media after waking up from standby

Advanced VPN Client Windows improvements in version 4.13 Rel Build 41436

Bugfixes / improvements

> Adjustments for Windows 10 version 1809

Due to Microsoft-internal changes it was not possible for previous clients to carry out a new installation on Windows 10 version 1809.

> Optimization of the client update process in case of a major update

The recognition of a major update within the installation process has been improved.

> VPN client display in the taskbar

If the client GUI is closed, the corresponding icon will no longer be displayed on the taskbar.

> Diagnostic data in the installation folder

In case of an activated trace function or a configured hotspot detection, diagnostic data was erroneously written to the client's installation folder.

> Firewall setting: Exception for VPN Path Finder

If the option „accept IPsec protocol (ESP, UDP 500) and VPN Path Finder (TCP 443)“ was configured in the firewall, target stations were accessible through the VPN tunnel via HTTPS port 443, although this was not allowed by any additional firewall rule.

> PKCS#11 file name length

The length of the input field of the client's PKI configuration for the PKCS#11 module has been extended to 255 characters.

> Loading DLLs

Improvements in DLL file loading for increased protection against manipulated DLLs

> Update check improvements

The client's update check for availability of new versions has been improved for increased protection against manipulations.

> Optimized data transfer performance outside of the VPN tunnel

> Improved silent installation

> Improved compatibility to DHCP servers

> Improved compatibility to external gateways

Advanced VPN Client Windows improvements in version 4.10 Rel Build 39753

New features

- **Biometric authentication (e.g. fingerprint- or face recognition) before VPN connection establishment**
For protection against a VPN connection establishment by unauthorized third parties a biometric authentication has been added to the Advanced VPN Client Windows. Immediately after pressing the "Connect" button in the client GUI there is a prompt for user authentication. The VPN connection is only established after a positive authentication. The Windows Hello functionality is required for biometric authentication, which is available as from Windows 8.1 or later.
- **Modernized client GUI**
The client GUI and the tray popup window which is started from the taskbar have been adopted to the current Windows 10 design.
- **Complete 64 bit implementation of the Advanced VPN Client Windows**
As from this version, all components of the Advanced VPN Client Windows are included in 64-bit versions.
- **New GUI for the credential provider, including the Hotspot authentication functionality**
For establishing the VPN tunnel prior to the Windows user authentication, it is now possible to do a Hotspot authentication on a re-designed GUI.

Bugfixes / improvements

- **Configuration of the VPN tunnel endpoint**
Multiple VPN tunnel endpoints can now be configured using their domain names.
- Optimization of the DPD functionality
- **FIPS-Inside**
When installing from scratch or changing an existing configuration the FIPS mode can be enabled or disabled from within the installation routine.
- **Display of IPv6 connection information**
IPv6 addresses are now displayed on the connection information page, too.
- **Enhancements within the Client Info Center**
A new section with driver information has been added to the Client Info Center. For Windows 10 operating systems, driver version- and build number are now additionally displayed.
- **Improvements of the Hotspot functionality**
The compatibility to Hotspot authentication pages has been extended.

3. New features, changes, and history Advanced VPN Client Windows version 3.x

Advanced VPN Client Windows improvements in version 3.13 RU2 Build 40955

Bugfixes / improvements

› **Adjustments for Windows 10 version 1809**

Due to Microsoft-internal changes it was not possible for previous clients to do carry out a new installation on Windows 10 version 1809.

› **Diagnostic data in the installation folder**

In case of an activated trace function or a configured hotspot detection diagnostic data was erroneously written to the client's installation folder.

› **License after 30-day trial version**

A malfunction of the license management could occur after the expiration of the trial period.

› **Loading DLLs**

Improvements in DLL file loading for increased protection against manipulated DLLs

Advanced VPN Client Windows improvements in version 3.13 RU1 Build 38935

Bugfixes / improvements

> Client firewall status feedback to the Windows operating system

An activated Advanced VPN Client Windows firewall is now shown under "Security and maintenance" in the Windows operating system.

> Network driver optimization

The connection establishment behavior after a standby has been improved by optimizing the NDIS network driver.

> Automatic network mask adjustment

If an invalid network mask is specified for a dial-in profile, a class C network mask (255.255.255.0) is automatically used for this connection.

Advanced VPN Client Windows improvements in version 3.13 Rel Build 38189

Bugfixes / improvements

- > Full compatibility to Windows 10 Creators Update (1709)
- > IKEv2 connections remain operational after being reconnected.
- > The stability of the integrated firewall has been generally improved.
- > A display issue in the budget manager has been fixed.
- > Long domain names can be used again.
- > The hotspot functionality has been improved.
- > Extended status information in the client info center
- > Improved stability when using VPN bypass
- > Improved stability for certificate handling by clients
- > A malfunction regarding seamless roaming has been fixed.

Advanced VPN Client Windows improvements in version 3.11 Rel Build 32792

New features

- › Using VPN Bypass, internet communication is now possible despite disabled split-tunneling
- › Home Zone can now be enabled within the firewall to use local resources within the client without configuration
- › Selection of a user- or computer-certificate can be preset within the Windows CSP
- › New product- and status icons
- › Support for more than two FND servers
- › The Budget manager supports the function “no roaming allowed”
- › The VPN client can now connect to an IPv6 network

Bugfixes / improvements

- › Fixed an issue with hotspot authentication
- › IPv6 IKE packets are no longer blocked when activating the firewall function „allow IPsec protocol”
- › Selection of an alternative IPsec port works, even if the option „allow...IPsec protocol (ESP, UDP) and VPN path finder” is enabled within the firewall
- › Enabling/disabling the credential provider is only possible via monitoring menu (configuration -> logon options) and is no longer shown during installation

Advanced VPN Client Windows improvements in version 3.10 RU2 Build 31731

Bugfixes / improvements

- Modified driver signature to grant success for a VPN client reinstall after the Windows 10 Anniversary update was done and if secure boot is enabled in the computer's BIOS/UEFI
- After restart or waking from sleep mode the Wi-Fi will be reliably activated
- Fixed an issue within stateful inspection which lead to a failed hotspot authentication
- Fixed an issue which could cause a loss of client activation after a restart under certain circumstances

Advanced VPN Client Windows improvements in version 3.10 Rel Build 30578

Bugfixes / improvements

- › The handling of the license file was optimized.
- › The certificate and within its signature were refreshed.
- › If the flight mode within a Windows 10 System is activated the client will recognize that and stop. Using 3G/4G-hardware won't be able to use in that situation.
- › Clicking the Connect-/Disconnect button in quick succession it was possible that an undefined state could be reached. This issue is now solved.

Advanced VPN Client Windows improvements in version 3.10 Rel Build 29061

New features

- Revision of the hotspot login: After the user has been connected to a certain wireless network, a web browser integrated in the Advanced VPN Client Windows window hotspot logins opens automatically
- Surveillance of the filter operator: The AVC monitors Windows system drivers which are needed for the client's operation
- Windows Pre-Logon: The Windows Pre-Logon functionality (Credential Provider) is now also available for Windows 10
- Support for IKEv2 Redirect (RFC 5685)

Bugfixes / improvements

- If the client recognizes a filter driver malfunction, this will be fixed automatically, and the user is prompted to do a restart
- On a clean install, the client is installed to the programs directory by default

Advanced VPN Client Windows improvements in version 3.04 Rel Build 26745

New features

- › Compatibility improvements with various Windows operating systems when disabling the WLAN adapter with plugged LAN cable

Bugfixes / improvements

- › Bugfix for forwarding the manually entered username and password while authenticating to Windows via Credential Provider
- › Bugfix for firewall application detection
- › Bugfix for automatic media detection with PPPoE
- › The ConnMode=2 connection mode (alternating (manual start of automatic mode)) is imported correctly during a profile import
- › Bugfix for Split Tunneling when the remote network IP address range is the same as the local user network (the route to the local network was deleted after a VPN profile change)
- › Fixed a problem with Windows 10 Update 1511 which led to lost registry entries

Advanced VPN Client Windows improvements in version 3.02 RU1 Build 25056

Bugfixes / improvements

- > A problem was solved which led to a rollback of the client during the filter driver setup.

Advanced VPN Client Windows improvements in version 3.02 Rel Build 24934

New features

- > Extensions within the log reporting
- > Support for Windows 10
- > Improved scaling of the monitor for touch screen operation
- > Known networks can be checked periodically for connectivity.
- > The displayed dialog during a failed connection establishment can be deactivated.
- > When using a hardware certificate the VPN connection can be established at system startup, without logging on to Windows system.
- > The WLAN adapter can now be disabled if a LAN cable is plugged in.

Advanced VPN Client Windows improvements in version 3.00 Rel Build 21499

New features

- › Windows 8.x compatibility improvements
- › There is now a 32-bit and 64-bit version of the LANCOM Advanced VPN Client Windows.
- › MSI-Installer
- › The new option „Allow outbound traffic to reject acknowledge“ was added to the Firewall.
- › **Two new connection modes for connection establishment**
 - Always (The client module will attempt to connect from system startup. If it does not exist it will try every 10 seconds.)
 - Changing (always-mode start manually)
- › Added a configurable ICMP polling for the VPN tunnel
- › An IPv6 address can be specified as endpoint for an IPv4 VPN tunnel.
- › The VPN network adapter can be hidden.

Bugfixes / improvements

- › Improved usage of a UMTS/GPRS connection
- › Under Windows 8, a replugged USB smartcard reader is recognized correctly by the LANCOM VPN Client Windows.