LANCOM Advanced VPN Client Windows

Universal VPN Software Client for secure corporate network access when traveling

The LANCOM Advanced VPN Client provides mobile employees with encrypted access to the company network, whether they are at their home office, on the road, or even abroad. The application is extremely easy to use; once VPN access (virtual private network) has been configured, a click of the mouse is all it takes to establish a secure VPN connection over the best available connection medium, also via cellular. Further data protection comes with the integrated stateful inspection firewall, support of all IPSec protocol extensions, and numerous other security features.

- IPSec VPN client for Windows
- Integrated stateful inspection firewall for secure Internet access
- Integrated mobile dialer including Budget Manager for full cost control
- Prioritization of Voice over IP data
- IPSec-over-HTTPS (based on NCP VPN Path Finder technology)
- Seamless roaming – VPN connections remain intact even with media changes
- Support of IPv6 VPN
LANCOM Advanced VPN Client Windows

Secure company network access when traveling
The LANCOM Advanced VPN Client for Windows provides users with a secure VPN tunnel to access the company network. No matter whether the user is mobile on the road, in the home office, or even abroad—the LANCOM Advanced VPN Client provides a secure channel to the company network, anytime and anywhere. And perfect when traveling: Seamless roaming maintains the channel even in case of a media change.

Maximum data security
Equipped with a stateful inspection firewall, the LANCOM Advanced VPN Client automatically detects secure and unsecure networks for protected communication at all times. Together with other security features such as the support of all current IPSec protocols, digital certificates, and many more, the client ensures that all data are securely transmitted at all times.

Full cost control
The Budget Manager integrated into the Mobile Network Dialer allows you to set time and volume quotas for full cost control. What's more, the option "No roaming allowed" disables data roaming to avoid additional costs. Also included: An automatic connection control with a range of cost-control functions provides a constant overview of charges, online time, and transfer volumes.

Fast and easy configuration thanks to the Setup Wizard and "1-Click-VPN"
The integrated Setup Wizard in LANconfig supports the user with fast and easy VPN configuration. Automatic media detection saves you having to define the connection type manually—it is selected automatically depending on the available medium. Once installed, the VPN connection is established intuitively with a single click.
# LANCOM Advanced VPN Client Windows

## Operating systems

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## Languages

- German
- English

## Communication

**Connection management**

Communication only via secured VPN tunnel or with simultaneous unsecured Internet access. Manual or automatic connection establishment, adjustable hold-times with automatic connection establishment, charges, time and connection limit with warning, ISDN channel bundling with adjustable threshold value. Always on mode for Windows 10 and Windows 8.1 particularly tablets.

**Connection types**

VPN connection over existing IP connection (LAN / WLAN) or direct management of analog and DSL modems (PPPoE), ISDN adapters (CAPI 2.0) as well as GPRS, UMTS and LTE cards with support of the Mobile Broadband interface of Windows 7. Alternative direct dial-in without encryption (e.g. ISDN), supports up to 5 remote networks per access profile.

**Protocols**

All IP-based protocols, NetBIOS/IP (Windows Networking), PPP, PPPoE and PPTP.

## VPN/IPsec

**Standards**

Standard-conform IPSec with ESP (Encapsulation Security Payload) and/or AH (Authentication Header).

**FIPS inside**

The IPSec client integrates an cryptographic algorithm conformant to the FIPS standard. The embedded cryptographic module is certified according to FIPS 140-2 (Certificate #1051). FIPS conformance will always be maintained when any of the following algorithms are used for establishment and encryption of the IPSec connection: Diffie Hellman Group: Group 2 or higher (DH starting from a length of 1024 bits), Hash Algorithms: SHA1, SHA 256, SHA 384, or SHA 512, Bit Encryption Algorithms: AES with 128, 192 or 256 Bit or Triple DES.

**Encryption**

AES-CBC/AES-CTR/AES-GCM (128, 192 or 256 bit), 3-DES (168 bit), RSA (1024 or 2048 bit).

**Hashes**

SHA-512, SHA-384, SHA-256, SHA-1, MD-5.

**IKE operating modes**

IKE with pre-shared keys or certificates, IKE Main or Aggressive Mode, IKEv2, DH groups 1, 2, 5, 14-21, 25-30, Re-keying after adjustable transfer volumes or time. In combination with LANCOM VPN remote sites, an IKE extension enables separate pre-shared keys to be used for each user in Aggressive Mode as well.

**Network coupling**


## Additional functions

**IPSec over HTTPS**

To overcome VPN filter (e.g. port 500 blocking for IKE). LANCOM VPN router and gateways with LCOS 8.0 or higher needed. IPSec over HTTPS is based on the NCP VPN Path Finder Technology.

**XAUTH**

For authentication by username/password.

**IKE config mode**

For assignment of IP parameters (local IP address, DNS and WINS server) to the client.

**IPCOMP**

IPCOMP data compression (LZS and Deflate) for optimal bandwidth exploitation.

**Dead-Peer-Detection**

Dead-peer detection (DPD) for connection monitoring.

**IKEv2 redirect**

Support for IKEv2 redirect according to RFC 5685.

**NAT-Traversal**

NAT-Traversal (NAT-T) to overcome routers not capable of IPSec masking, or when using AH.

**RAS user template**

Configuration of all VPN client connections in IKE ConfigMode via a single entry in the LANCOM VPN gateway.

**EAP-MD5**

For extended authentication of layer-2 devices such as switches or WLAN access points.

**Seamless Roaming**

VPN connections stay uninterrupted even when the media (LAN, WLAN, cellular networks) changes and no new session has to be started (in conjunction with LANCOM routers with LCOS 8.6).

**Biometric authentication**

Secure against unauthorised access by third parties via biometric authentication (e.g. fingerprint or face detection).

**IKEv2 Split-DNS**

Split-DNS allows the DNS resolution of internal domains, i.e. "*.company.com" via an existing VPN tunnel, whereas all other DNS requests will be sent to a public DNS server.

**Windows certification store (CSP)**

For the use of user certificates in Windows certificate store.

## PKI

**Certificates**

Public Key Infrastructure according to X.509v3, Entrust SmartCards: PKCS#11, TCOS 1.2 and 2.0 over CT-API or PC/SC Soft certificates: PKCS#12.
LANCOM Advanced VPN Client Windows

PKI
Certificate extension
Control of, and notice about, a certificate’s validity period
Certificate revocation lists (CRL)
Control of the CRL and ARL (Certificate and/or Authority Revocation List)
One-Time Password
Convenient entry through separated PIN and password

Firewall
Stateful inspection Firewall
Stateful inspection firewall for IPv4 and IPv6, direction-dependant packet filter with IP- and port ranges per protocol, LAN-adaptor protection to protect PCs with active VPN connections from attacks from other LAN users, IP broadcast and NetBIOS/IP filter

Installation
Wizards
Tailor-made Setup Wizards are available for all types of connection

Administration
Password protection
Password protection for configuration and profile management, configuration rights can be defined for each function area, display/hide parameter fields
Network diagnostics
Easy checking of internet accessibility through PING and DNS request
Automatic software updates
Software can search for new versions in definable time intervals
MSI installer
Software distribution via MSI installer

Activation / Deactivation
Online/offline activation
After installation, the software will function for a period of 30 days. Activation must take place within these 30 days. This can be conducted either directly online (requiring Internet access from the corresponding computer) or offline (requiring Internet access from any other computer). Activation is anonymous. No user-specific data of any kind is transmitted.
Deactivation
The licenses for the LANCOM Advanced VPN Client are single-device licenses and may only be activated and operated on one system at a time. The deactivation feature of the Advanced VPN Client offers you a convenient way to deactivate a license on a system that is no longer in use and to activate it again on a new system. (as of Version 2.32, Build 128)

Updates
Update*
An update to a later version is generally available for free and can be carried out without purchasing a new license key. An update provides all of the previous bugfixes from earlier versions.
Upgrade
With an upgrade to the current version, users of older versions can take advantage of the new features in the current version. An upgrade is subject to a fee and requires a new upgrade license key to be purchased, along with a new activation. Upgrades are only possible with a maximum of 2 software versions between the version that was activated originally and the current version. Please visit www.lancom-systems.com/avc for details.

*) Note
As of version 3.10, a license key of the same version is compulsory for the activation of the Advanced VPN Client. An activation, respectively the installation of an update with older license keys will no longer be possible. This applies from now on for every upcoming major version.

Support
Support
Support via Internet
Service
30-day demo version from www.lancom-systems.com

Package content
Manual
Printed Quick Installation Guide (DE/EN)
Key
Printed license key

Item numbers
Item no. 61600
LANCOM Advanced VPN Client Windows
Item no. 61601
LANCOM Advanced VPN Client Windows (10 Bulk)
Item no. 61602
LANCOM Advanced VPN Client Windows (25 Bulk)

Options
Item no. 61603
LANCOM Upgrade Advanced VPN Client Windows (for activating the new functions up to two major releases)
Item no. 61604
LANCOM Upgrade Advanced VPN Client Windows (10 bulk) (for activating the new functions up to two major releases)
Item no. 61605
LANCOM Upgrade Advanced VPN Client Windows (25 Bulk) (for activating the new functions up to two major releases)

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