Release Notes





Minor release:13.11 r29631Date:September 2022

Prerequisites

Operating System Support

The following Microsoft Operating Systems are supported with this release:

- Windows 11, 64 bit (up to and including version 21H2)
- Windows 10, 64 bit (up to and including version 21H2)

VPN gateway

Juniper SRX Series

HotSpot login

For the correct function of the HotSpot login, at least version 101.0.1210.39 of the Microsoft WebView2 Runtime must be installed.

Operation with NCP Exclusive Remote Access Management

To update the client software the following plugins are required:

- NCP Exclusive Management: Version 5.30 or newer
 NCP Management Console: Version 5.30 or newer
 Client Configuration Plugin: Version 13.10
 License Plugin: Version 13.00
- Firewall Plug-in: Version 13.00
- Endpoint Policy Plug-in Version 6.20 or newer

The following features are no longer available as of this client version:

- SMS Center
- Connection medium: modem, xDSL, ext. dialer

Before updating to version 13, we recommend checking the client version already installed on the user computer in the case of a rollout via NCP management. If the version number is version 11.14 or above, the update to version 13 can be carried out without further measures. If the client version is older, it is strongly recommended to first distribute the update client version 6.01 up to max. 7.01 via NCP management. This will place it first in the software update list.

NCP Exclusive Remote Access Client Release Notes





When updating from a version lower than 12.0, the notes in "New Directory Structure" must be observed.

New Directory Structure

For security reasons and compatibility with Windows, the directory structure of the NCP Secure Client has been changed as of version 12.0. The following directories that were previously in the installation directory under Programs\NCP\Exclusive Remote Access Client\ have been migrated to ProgramData\NCP\Exclusive Remote Access Client\:

arls, cacerts, certs, config, crls, CustomBrandingOption, data, hotspot, log, statistics

These are configuration files, certificates or log files. Binaries or resources remain in Programs \.... During the update process, the new directory structure is created automatically and the configuration is transferred accordingly. Configuration paths within the certificate configuration that contain the variable %InstallDir% are converted to paths with %CertDir%. %CertDir% refers to the path C:\ProgramData\NCP\Exclusive Remote Access Client\certs.

Note: The configuration entry %CertDir%\client1.p12 is equivalent to client1.p12. Please note when using the NCP management:

The NCP Exclusive Remote Access Clients can be upgraded to version 13.x as before. The local configuration is automatically converted during the update process. When using NCP management to assign new configurations, the paths in the configurations or templates to be assigned must be modified before distribution. Likewise, for different client versions, a distinction must be made between configurations from version 12.x and older versions. The use of absolute paths is not recommended by NCP.

1. New Features and Enhancements

None.

2. Improvements / Problems Resolved

Improve compatibility with Juniper SRX gateways in case of ReKeying phase.

Support for RFC 8598

RFC 8598 defines how the VPN gateway passes the split DNS configuration to the VPN client. This RFC is supported as of this client version.



Release Notes



Program maintenance / Change program

If the VPN client is made to perform program maintenance via the classic control panel "Change program", a rollback of the installation is performed with the driver update. After the "Finish" of the action, the message "Serious error during installation" appears. This problem has been fixed.

3. Known Issues

Application-based VPN bypass configuration

Configuring a DNS within the VPN Bypass configuration will invalidate an application-based rule contained within it.

Compatibility of the Update Client

The Update Client 8.0 included in the NCP Secure Client is not compatible with older versions of the NCP Secure Client and accordingly cannot be distributed for these versions via SEM update.

Display of the software update list

The software update list is displayed more often, although it is set in the Secure Enterprise Management Server that the user is informed "only when updates are available". This is due to the introduction of the audit log in the VPN client, which is transmitted to the central management at least once a day.

PIN menu entries

When using hardware certificates, the PIN menu entries "Enter/Reset/Change PIN" without function can be selected incorrectly.

Seamless roaming

Under certain circumstances, the VPN tunnel status remains at "Keep tunnel logical" when switching from WLAN to LAN and a functional connection via LAN is not established. This must be done by manually disconnecting and connecting.

Home Zone and IPv6

If the predefined Home Zone rule is active in the firewall settings of the VPN client, outgoing IPv6 packets to the local network are dropped in the defined Home Zone network.

Release Notes





Minor release:13.10 r29617Date:August 2022

Prerequisites

Operating System Support

The following Microsoft Operating Systems are supported with this release:

- Windows 11, 64 bit (up to and including version 21H2)
- Windows 10, 64 bit (up to and including version 21H2)

VPN gateway

Juniper SRX Series

HotSpot login

For the correct function of the HotSpot login, at least version 101.0.1210.39 of the Microsoft WebView2 Runtime must be installed.

Operation with NCP Exclusive Remote Access Management

To update the client software the following plugins are required:

- NCP Exclusive Management: Version 5.30 or newer
 NCP Management Console: Version 5.30 or newer
 Client Configuration Plugin: Version 13.10
- License Plugin: Version 13.00Firewall Plug-in: Version 13.00
- Endpoint Policy Plug-in Version 6.20 or newer

The following features are no longer available as of this client version:

- SMS Center
- Connection medium: modem, xDSL, ext. dialer

Before updating to version 13, we recommend checking the client version already installed on the user computer in the case of a rollout via NCP management. If the version number is version 11.14 or above, the update to version 13 can be carried out without further measures. If the client version is older, it is strongly recommended to first distribute the update client version 6.01 up to max. 7.01 via NCP management. This will place it first in the software update list.

NCP Exclusive Remote Access Client Release Notes





When updating from a version lower than 12.0, the notes in "New Directory Structure" must be observed.

New Directory Structure

For security reasons and compatibility with Windows, the directory structure of the NCP Secure Client has been changed as of version 12.0. The following directories that were previously in the installation directory under Programs\NCP\Exclusive Remote Access Client\ have been migrated to ProgramData\NCP\Exclusive Remote Access Client\:

arls, cacerts, certs, config, crls, CustomBrandingOption, data, hotspot, log, statistics

These are configuration files, certificates or log files. Binaries or resources remain in Programs \.... During the update process, the new directory structure is created automatically and the configuration is transferred accordingly. Configuration paths within the certificate configuration that contain the variable %InstallDir% are converted to paths with %CertDir%. %CertDir% refers to the path C:\ProgramData\NCP\Exclusive Remote Access Client\certs.

Note: The configuration entry %CertDir%\client1.p12 is equivalent to client1.p12. Please note when using the NCP management:

The NCP Exclusive Remote Access Clients can be upgraded to version 13.x as before. The local configuration is automatically converted during the update process. When using NCP management to assign new configurations, the paths in the configurations or templates to be assigned must be modified before distribution. Likewise, for different client versions, a distinction must be made between configurations from version 12.x and older versions. The use of absolute paths is not recommended by NCP.

1. New Features and Enhancements

Preparation for the new user authentication via SAML protocol

The NCP solution will gradually introduce a new user authentication via SAML protocol. The login for this is done with the standard web browser available on the user's computer. Authentication takes place at an identity service such as Microsoft Azure AD or Okta. The Authentication Server, which is still under development, represents the interface to the NCP solution, NCP Secure Enterprise Management.

New option: "DNS domains to be resolved in the tunnel".

The split DNS functionality can be configured using the new option "DNS domains to be resolved in the tunnel". In the case of configured split tunneling, the DNS requests of the configured domains are sent

Release Notes





into the VPN tunnel. All other DNS requests bypass the VPN tunnel.

RFC 7296 support

The VPN client now supports RFC 7296 for distributing split tunneling configurations from the VPN gateway.

2. Improvements / Problems Resolved

Software update via mobile radio

The locking of software updates of the client via mobile radio did not work. This problem has been fixed.

New rights structure within C:\ProgramData\NCP\

A user had write permissions within the directory C:\ProgramData\NCP\. These were limited to a minimum. For example, a user can now no longer store CA certificates in the designated directory. Likewise, the directory and permissions structure has been rebuilt so that no application in the user and system context writes to the same directory. This problem has been fixed.

Improvements in server-side configured Split DNS

Automatic Windows logon

If the option "Automatic Windows logon with configured credentials" was selected within the logon options, the Windows logon did not work. Likewise, there was a problem in connection with 2-factor authentication via TOTP. This problem has been fixed.

Fix for Seamleass Roaming and IPv6 destination addresses

VPN username from cache

After updating a previous version, the cached VPN username was sometimes not displayed correctly in the login dialog. This problem has been fixed.

Wrong status display after profile change

After a profile change from a certificate-based profile with successful PIN entry to a profile with preshared key, the entered PIN was not deleted and the PIN icon was not removed from the client GUI. This issue has been fixed.

PKI error when switching profiles

When switching profiles from a certificate-based profile with *.p12 file to a profile with SmartCard reader, a PKI error was displayed. This problem has been fixed.

Release Notes





Update to zlib version 1.2.12

The zlib version used in the VPN client was raised to 1.2.12. This closed the zlib security vulnerability [CVE-2018-25032].

OpenSSL security patch

The vulnerabilities [CVE-2022-0778] and [CVE-2020-1971] have been fixed in OpenSSL.

Migration to TLS 1.2

TLS versions 1.0 and 1.1 are no longer supported with this client release.

Update to cURL library 7.84.0

The cURL version used in the VPN client has been upgraded to 7.84.0. This closed the cURL vulnerabilities [CVE-2022-27776], [CVE-2022-27775], [CVE-2022-27774], [CVE-2022-22576], [CVE-2022-32205], [CVE-2022-32206], [CVE-2022-32207], and [CVE-2022-32208].

Improved 2-factor authentication / token entry.

Incorrect status display: smart card

Under certain circumstances, a profile with 2-factor authentication incorrectly displayed a smart card icon. When switching to a profile with a smart card, an error message was displayed stating that the smart card was not initialized correctly. This problem has been fixed.

Problem solved after changing DNS entries in VPN Bypass configuration.

Problem solved in rollout process with INITUser and certificate distribution

Problem solved within the Client API

Problem solved when calling HotSpot login

The HotSpot login was not called correctly if the autostart option "Icon in system tray" was selected. This problem has been fixed.

Troubleshooting an incorrectly displayed PIN request

When using the CSP user certificate store, a PIN was sometimes incorrectly prompted. This problem has been fixed. Likewise, the PIN query option in the case of the CSP user certificate store has been removed in the client plug-in.

Improvement in addressing the gateway via IPv6

Release Notes





PAP/CHAP error during connection setup

Under certain circumstances, the VPN client displays a PAP/CHAP error when establishing an IKEv2 connection. This can be resolved by the user by opening the VPN profile and confirming with "Ok". This problem has been fixed.

3. Known Issues

Application-based VPN bypass configuration

Configuring a DNS within the VPN Bypass configuration will invalidate an application-based rule contained within it.

Compatibility of the Update Client

The Update Client 8.0 included in the NCP Secure Client is not compatible with older versions of the NCP Secure Client and accordingly cannot be distributed for these versions via SEM update.

Display of the software update list

The software update list is displayed more often, although it is set in the Secure Enterprise Management Server that the user is informed "only when updates are available". This is due to the introduction of the audit log in the VPN client, which is transmitted to the central management at least once a day.

PIN menu entries

When using hardware certificates, the PIN menu entries "Enter/Reset/Change PIN" without function can be selected incorrectly.

Seamless roaming

Under certain circumstances, the VPN tunnel status remains at "Keep tunnel logical" when switching from WLAN to LAN and a functional connection via LAN is not established. This must be done by manually disconnecting and connecting.

Home Zone and IPv6

If the predefined Home Zone rule is active in the firewall settings of the VPN client, outgoing IPv6 packets to the local network are dropped in the defined Home Zone network.

Program maintenance / Change program

If the VPN client is made to perform program maintenance via the classic control panel "Change program", a rollback of the installation is performed with the driver update. After the "Finish" of the action, the message "Serious error during installation" appears. The VPN client is fully functional again after closing all dialogs.

Release Notes





 Minor release:
 13.05 r29388

 Date:
 May 2022

Prerequisites

Operating System Support

The following Microsoft Operating Systems are supported with this release:

- Windows 11, 64 bit (up to and including version 21H2)
- Windows 10, 64 bit (up to and including version 21H2)

VPN gateway

Juniper SRX Series

Prerequisites for Updating via Exclusive Remote Access Management

To update the client software the following plugins are required:

•	NCP Exclusive Management:	Version 5.30 or newer
•	NCP Management Console:	Version 5.30 or newer
•	License Plugin:	Version 13.00
•	Client Configuration Plugin:	Version 13.00
•	Firewall Plug-in:	Version 13.00

The following features are no longer available as of this client version:

- SMS Center
- Connection medium: modem, xDSL, ext. dialer

Before updating to version 13, we recommend checking the client version already installed on the user computer in the case of a rollout via NCP management. If the version number is version 11.14 or above, the update to version 13 can be carried out without further measures. If the client version is older, it is strongly recommended to first distribute the update client version 6.01 up to max. 7.01 via NCP management. This will place it first in the software update list.

When updating from a version lower than 12.0, the notes in "New Directory Structure" must be observed.

Release Notes





New Directory Structure

For security reasons and compatibility with Windows, the directory structure of the NCP Secure Client has been changed as of version 12.0. The following directories that were previously in the installation directory under Programs\NCP\Exclusive Remote Access Client\ have been migrated to ProgramData\NCP\Exclusive Remote Access Client\:

arls, cacerts, certs, config, crls, CustomBrandingOption, data, hotspot, log, statistics

These are configuration files, certificates or log files. Binaries or resources remain in Programs\... During the update process, the new directory structure is created automatically and the configuration is transferred accordingly. Configuration paths within the certificate configuration that contain the variable %InstallDir% are converted to paths with %CertDir%. %CertDir% refers to the path C:\ProgramData\NCP\Exclusive Remote Access Client\certs.

Note: The configuration entry %CertDir%\client1.p12 is equivalent to client1.p12. Please note when using the NCP management:

The NCP Exclusive Remote Access Clients can be upgraded to version 13.x as before. The local configuration is automatically converted during the update process. When using NCP management to assign new configurations, the paths in the configurations or templates to be assigned must be modified before distribution. Likewise, for different client versions, a distinction must be made between configurations from version 12.x and older versions. The use of absolute paths is not recommended by NCP.

1. New Features and Enhancements

None.

2. Improvements / Problems Resolved

The NCPRWSNT service stops responding

In rare cases, primarily on new hardware, sporadic crashes of the NCPRWSNT service occurred. This problem, which occurred on an "HP ZBook Firefly 14 G8 Mobile Workstation", has been fixed.

Smartcard via CSP: Problems with PIN entry

When using a SmartCard reader controlled via CSP, the PIN entry dialog was not automatically displayed when accessing the SmartCard. In this situation, the user had to call the PIN entry manually. This problem has been fixed.

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Logon options: Problem with Windows automatic logon and TOTP.

Within the logon options, the client can be configured to pass the VPN user ID and password to the Windows logon. This did not previously work for the case of 2-factor authentication with the entry of an additional passcode. This problem has been fixed.

Update to OpenSSL version 1.0.2u-12

The OpenSSL version used in the NCP Secure Client has been upgraded to 1.0.2u-12. This closed the OpenSSL security vulnerability CVE-2022-0778.

After pulling and inserting a smart card, it is no longer recognized in the client

When using a smart card reader and controlling it via CSP – Microsoft Smart Card Key Storage Provider – the smart card was no longer recognized after repeated pulling and inserting. This problem has been fixed.

Wrong display of PIN icon

When using the Credential Provider (Windows Pre-Logon), the PIN status was set incorrectly when the "Enter PIN on every connection" option was enabled. This problem has been fixed.

3. Known Issues

PIN and SmartCard reader status display

If both VPN profiles with and without certificate configuration are present in the NCP Secure Client, the status of the PIN icon or SmartCard reader may be displayed incorrectly in the client GUI under certain circumstances. The use of a profile without certificate configuration may only be possible after restarting the PKI service.

Application-based VPN bypass configuration

Configuring a DNS within the VPN Bypass configuration will invalidate an application-based rule contained within it.

Compatibility of the Update Client

The Update Client 8.0 included in the NCP Exclusive Remote Access Client is not compatible with older versions of the NCP Exclusive Remote Access Client and accordingly cannot be distributed for these versions via SEM Update.

Option: "Automatically Open Connection Setup Dialog"

Under certain circumstances, the Logon option "Automatically Open Connection Dialog" does not work.

Release Notes





Major release:13.04 r29374Date:March 2022

Prerequisites

Operating System Support

The following Microsoft Operating Systems are supported with this release:

- Windows 11, 64 bit (up to and including version 21H2)
- Windows 10, 64 bit (up to and including version 21H2)

VPN gateway

Juniper SRX Series

Prerequisites for Updating via Exclusive Remote Access Management

To update the client software the following plugins are required:

•	NCP Exclusive Management:	Version 5.30 or newer
•	NCP Management Console:	Version 5.30 or newer
•	License Plugin:	Version 13.00
•	Client Configuration Plugin:	Version 13.00
•	Firewall Plug-in:	Version 13.00

The following features are no longer available as of this client version:

- SMS Center
- Connection medium: modem, xDSL, ext. dialer

Before updating to version 13, we recommend checking the client version already installed on the user computer in the case of a rollout via NCP management. If the version number is version 11.14 or above, the update to version 13 can be carried out without further measures. If the client version is older, it is strongly recommended to first distribute the update client version 6.01 up to max. 7.01 via NCP management. This will place it first in the software update list.

When updating from a version lower than 12.0, the notes in "New Directory Structure" must be observed.

Release Notes





New Directory Structure

For security reasons and compatibility with Windows, the directory structure of the NCP Secure Client has been changed as of version 12.0. The following directories that were previously in the installation directory under Programs\NCP\Exclusive Remote Access Client\ have been migrated to ProgramData\NCP\Exclusive Remote Access Client\:

arls, cacerts, certs, config, crls, CustomBrandingOption, data, hotspot, log, statistics

These are configuration files, certificates or log files. Binaries or resources remain in Programs\.... During the update process, the new directory structure is created automatically and the configuration is transferred accordingly. Configuration paths within the certificate configuration that contain the variable %InstallDir% are converted to paths with %CertDir%. %CertDir% refers to the path C:\ProgramData\NCP\Exclusive Remote Access Client\certs.

Note: The configuration entry %CertDir%\client1.p12 is equivalent to client1.p12. Please note when using the NCP management:

The NCP Exclusive Remote Access Clients can be upgraded to version 13.x as before. The local configuration is automatically converted during the update process. When using NCP management to assign new configurations, the paths in the configurations or templates to be assigned must be modified before distribution. Likewise, for different client versions, a distinction must be made between configurations from version 12.x and older versions. The use of absolute paths is not recommended by NCP.

1. New Features and Enhancements

Revised hotspot login

Starting with this version 13.0 of the NCP Exclusive Remote Access Client, the Chrome-based Microsoft Edge web browser is invoked via WebView2 runtime and used exclusively for the purpose of logging into a hotspot. The prerequisite for this is the installed WebView2 runtime (from version 94.0.992.31 or newer) within the operating system. The WebView2 runtime can be downloaded here: https://developer.microsoft.com/en-us/microsoft-edge/webview2/#download-section

Support for WPA3 encryption

The Wi-Fi Manager integrated in the NCP Exclusive Remote Access Client can now also manage Wi-Fis encrypted with WPA3.

SECURE COMMUNICATIONS



Support of RFC 7296

Release Notes

RFC 7296 defines the forwarding of split tunneling remote networks by the VPN gateway to the VPN client. This RFC is supported as of this client version.

Enhanced of the VPN status in the Windows registry

Previously, the connection status of the NCP client could be found in the registry under "Computer \
HKEY_LOCAL_MACHINE \ SOFTWARE \ WOW6432Node \ NCP engineering GmbH \
NCP RWS / GA \ 6.0" for the SecClCsi parameter with the values

0 = not connected and 1 = connected

read out. As of this version, the client saves additional states in the Windows registry in the following location:

```
<code>HKEY_LOCAL_MACHINE \ SOFTWARE \ NCP engineering GmbH \ NCP Secure Client</code>
```

or

HKEY_LOCAL_MACHINE \ SOFTWARE \ WOW6432Node \ NCP engineering GmbH \
NCP Secure Client

The associated parameter ConnectState can have the following values:

- 0 = connection is disconnected
- 1 = connection is being established
- 2 = connection has been successfully established
- 3 = Internet connection is interrupted, VPN connection is on hold
- 4 = connection established but only communication with the NCP management server possible (licensing)

Reading out Windows environment variables in the certificate configuration

In the "CSP user certificate store" certificate configuration, the client supports the entry of Windows environment variables, e.g. <code>%userdnsdomain%</code>, <code>%userdomain%</code> or <code>%computername%</code>. These are queried when reading the cnf configuration in the underlying operating system and their return values are statically adopted in the configuration. A combination with additional characters is possible, for example: "%computername%. %userdnsdomain%".

Release Notes





2. Improvements / Problems Resolved

Revised file handling of ncp.db

In rare cases, the $ncp \cdot db$ file became unusable during operation, causing the client to lose its license. This problem has been fixed.

"Network Location Awareness" not available with NCP firewall active

If the client firewall is activated, the "Network Location Awareness" of the Windows operating system is not available. In the case of the exclusively desired Friendly Network Detection functionality, the "Network Location Awareness" of the Windows operating system can be used by configuring a client firewall rule "Allow all network traffic bidirectionally" and setting a registry key. For this purpose the parameter RegDw "WscIntegration"=0 has to be configured in the registry within HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ncprwsnt. The default value of this parameter is 1.

Option "Disable Wi-Fi when LAN cable is connected": Problem with Hyper-V

When using Hyper-V functionality, the Wi-Fi adapter was incorrectly deactivated when the "Disable Wi-Fi when LAN cable is connected" option was set. This problem has been fixed.

Automatic login via credential provider

When using the logon option with configured user credentials, a locked Windows workstation could be unlocked by selecting the NCP credential provider. This problem has been fixed.

Troubleshooting for multiple certificates with the same issuer and subject in the Windows certificate store

If the Windows certificate store contained certificates with identical issuer and subject, the wrong expired certificate was sometimes used by the client and acknowledged with the message "unable to get issuer certificate". This problem has been fixed.

Changed default value in FND options

The default value for the "Check for friendly networks periodically" option has been changed from 0 sec to 3600 sec.

Incomplete log files

Under certain circumstances, incorrect write accesses to the client log files occurred, so that log entries were missing in the worst case. This problem has been fixed.

Release Notes





Revised installation routine

In rare cases, after the end of the installation process, before the computer restart, the network connection was completely disconnected. This problem has been fixed. Furthermore, the "Repair program" functionality within the MSI installation process has been removed.

Error after standby state in connection with IPv6 fixed

After the standby state of the PC there were connection problems with IPv6. This error has been fixed.

Newly imported certificates in Computer CSP were not taken over

In rare cases, connection errors occurred when using NCP Exclusive Remote Access Client 12.20 when a new certificate was distributed by Entrust. This error has been fixed.

Problem during installation with certmgr.exe

During the installation of the NCP Exclusive Remote Access Client, the certmgr.exe file created by Microsoft was used to install the NCP manufacturer certificate. This file was recognized as not signed. Starting from this version, the newer certuil.exe is used instead of certmgr.exe. This has fixed the problem.

Dynamic certificate selection

The certificate selection has been significantly improved. In addition, only valid certificates will be imported in the future.

Import of a ncpphone.cnf via ncpclientcmd.exe before user login

Starting with version 12.x of the NCP Exclusive Remote Access Client, the CLI tools rwscmd.exe and ncpclientcmd.exe could not read in a cnf configuration before user login. This problem has been fixed.

Bugfix in ESP header for IPv6

Revised parameter locks in the client GUI

In the client GUI, measures have been taken to ensure that blocked buttons cannot be activated by certain tools and that blocked functions are made available as a result.

Fixed a problem when establishing a connection with VPN Path Finder via IPv6

Improvement of the FND compatibility with network switches

Release Notes





Optimization of the establishment of an IKEv2 connection with EAP

In certain situations, the establishment of the VPN tunnel with IKEv2 and EAP could take an unusually long time. This problem has been resolved.

Improvement of the VPN bypass compatibility with MS Teams

3. Known Issues

Compatibility of the Update Client

The Update Client 8.0 included in the NCP Exclusive Remote Access Client is not compatible with older versions of the NCP Exclusive Remote Access Client and accordingly cannot be distributed for these versions via SEM Update.

Option: "Automatically Open Connection Setup Dialog"

Under certain circumstances, the Logon option "Automatically Open Connection Dialog" does not work.

4. Getting Help for the NCP Exclusive Remote Access Client

To ensure that you always have the latest information about NCP's products, always check the NCP website. More information on NCP Exclusive Remote Access Client is available on the Internet at: https://www.ncp-e.com/en/exclusive-remote-access-solution/vpn-client/

NCP Exclusive Remote Access Client Release Notes





5. Features

Operating Systems	Microsoft Windows (64 bit): Windows 11, Windows 10 x86-64 platform		
Juniper SRX/vSRX OS	Junos OS 15.1X49-D80 or higher is required		
Security Features	The Enterprise Client supports all major IPsec standards in accordance with RFC		
Personal Firewall Firewall Configuration*	Stateful Packet Inspection; IP-NAT (Network Address Translation); Friendly Net Detection (Firewall rules adapted automatically if the connected network is recognized based on its IP subnet address, the DHCP server's MAC address or an NCP FND Server*); Start FND dependent action; Secure hotspot logon; Home Zone; Differentiated filter rules relative to: protocols, ports, applications and addresses, LAN adapter protection, IPv4 and IPv6 support, Central administration		
VPN Bypass	The VPN Bypass function allows the administrator to define applications which can communicate over the Internet directly despite disabling split tunneling on the VPN connection. It is also possible to define which domains or target addresses can bypass the VPN tunnel.		
Virtual Private Networking	IPsec (Layer 3 Tunneling), RFC-conformant; IPsec proposals can be determined through the IPsec gateway (IKEv1/IKEv2, IPsec Phase 2); Event log; communication only in the tunnel; MTU size fragmentation and reassembly, DPD, NAT-Traversal (NAT-T); IPsec tunnel mode		
Encryption	Symmetric processes: AES 128, 192, 256 bits; Blowfish 128, 448 bits; Triple-DES 112, 168 bits; Dynamic processes for key exchange: RSA to 2048 bits; seamless rekeying (PFS); Hash algorithms: SHA-1, SHA-256, SHA384, SHA-512, MD5, DH group 1, 2, 5, 14-21, 25-30		
FIPS Inside	 The IPsec Client incorporates cryptographic algorithms conformant with the FIPS standard. The embedded cryptographic module incorporating these algorithms has been validated as conformant to FIPS 140-2 (certificate #1747). FIPS conformance will always be maintained when any of the following algorithms are used for establishment and encryption of the IPsec connection: DH Group: Group 2 or higher (DH starting from a length of 1024 Bit) Hash Algorithms: SHA1, SHA 256, SHA 384, or SHA 512 Bit Encryption Algorithms: AES with 128, 192 and 256 Bit or Triple DES 		

Release Notes





IKE (Aggressive Mode and Main Mode, Quick Mode); XAUTH for extended user authentication; IKEv2;
IKE config. mode for dynamic assignment of a virtual address from the internal address pool (private IP);
PFS;
PAP, CHAP, MS CHAP V.2;
IEEE 802.1x: EAP-MD5 (Extensible Authentication Protocol): Extended authentication relative to switches and access points (Layer 2);
EAP-TLS (Extensible Authentication Protocol - Transport Layer Security): Extended
authentication relative to switches and access points on the basis of certificates (Layer 2);
Support of certificates in a PKI: Soft certificates, smart cards, and USB tokens; Multi
Certificate Configurations;
Pre-shared secrets, one-time passwords, and challenge response systems; RSA SecurID ready
X.509 v.3 Standard; biometric Authentication (Windows 8.1 or higher)
PKCS#11 interface for encryption tokens (USB and smart cards);
smart card operating systems: TCOS 1.2, 2.0 and 3.0 Signature Card Version 2.0 Release 1,
Atos CardOS V5.3 QES, V1.0;
Smart card reader interfaces: PC/SC, CT-API, Microsoft CSP;
PKCS#12 interface for private keys in soft certificates;
CSP for the use of user certificates in the windows certificate store CSP for the use of smart cards via vendor API
PIN policy; administrative specification for PIN entry in any level of complexity;
revocation: EPRL (End-entity Public-key Certificate Revocation List, formerly CRL),
CARL (Certification Authority Revocation List, formerly ARL), OCSP
CMP* (Certificate Management Protocol)
LAN emulation: Ethernet adapter with NDIS interface, full WLAN (Wireless Local Area Network) and WWAN (Wireless Wide Area Network, Mobile Broadband) support
IPv4 / IPv6 Dual Stack
NCP Internet Connector or Microsoft RAS Dialer (for ISP dial-in via dial-in script)
NCP Path Finder Technology: Fallback IPsec/ HTTPS (port 443) if port 500 respectively UDP encapsulation is not possible
DHCP (Dynamic Host Control Protocol), DNS: Dial-in to the central gateway with changing
public IP addresses through IP address query via DNS server

Release Notes





Line Management	DPD with configurable time interval; Short Hold Mode; Wi-Fi roaming (handover); Timeout (controlled by time and charges); Budget manager (administration of connection time and/or –volume for GPRS/ 3G and Wi-Fi, in case of GPRS/ 3G separated administration of roaming abroad) Connection Modes: automatic, manual, variable (reconnection dependent on how previous disconnect invoked)
APN from SIM Card	APN (Access Point Name) defines access point of a mobile data connection at a provider. If user changes provider, system automatically uses APN data from SIM card to configure Exclusive Remote Access Client
Data Compression	IPCOMP (Izs), deflate (only for IKEv1)
Quality of Service	Prioritization of configured outgoing bandwidth in VPN tunnel.
Additional Features	Automatic media detection; UDP encapsulation, WISPr-support, IPsec-Roaming, Wi-Fi roaming, Split Tunneling
Point-to-Point Protocols	PPP over GSM, PPP over Ethernet; MLP, CCP, CHAP
Internet Society RFCs and Drafts	RFC 2401–2409 (IPsec), RFC 3947 (NAT-T negotiations), RFC 3948 (UDP encapsulation), IP security architecture, ESP, ISAKMP/Oakley, IKE, XAUTH, IKECFG, DPD, NAT Traversal (NAT- T), UDP encapsulation, IPCOMP; RFC 7427: IKEv2-Authentication (Padding-method)
Client Monitor Intuitive, Graphical User Interface	Multilingual (English, German); Intuitive operation; Configuration, Connection Management and Monitoring, Connection Statistics, Log-files, Internet availability test, Trace Tool for error diagnosis; Traffic light icon for display of connection status; Integrated support of Mobile Connect Cards, embedded); Client Monitor can be tailored to include company name or support information; Password protected configuration management and profile management, configuration parameter lock
Update with SEM	 To update the client software the management server version 5.30 and the following plugins are required: License Plugin: Version 13.00 Client Configuration Plugin: Version 13.10 Firewall Plug-in: Version 13.00 Update Client: Version 8.00

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*) If you wish to download NCP's FND server as an add-on, please click here: https://www.ncp-e.com/de/service/download-vpn-client/

More information: https://www.ncp-e.com/en/exclusive-remote-access-solution/vpn-client/



NCPATH FINDER