for Windows Release Notes





Minor Release:13.30 r30518Date:February 2024

#### Prerequisites

#### Microsoft Operating Systems:

The following Microsoft Operating Systems are supported with this release:

- Windows Server 2022
- Windows Server 2019

#### **Update Prerequisites**

Please read the instructions for updates of previous versions in the manual carefully.

#### The following versions are required for the use of other NCP components

- Secure Enterprise Management Server version 6.10 or higher
- Management Console version 6.10 or higher
- Management Plug-in Server Configuration Version 13.20 or higher
- Secure Enterprise HA Server version 13.20 or higher

#### **Removed Functionalities**

The following functionalities are no longer included in the product as of major release 13.0:

- Interface for Metadata Access Points (IF-MAP)
- FIPS mode
- SSL VPN functionality

Note: The corresponding management Plug-in Server Configuration does not include SSL VPN configuration for older server versions. If this is required, an older plug-in must be used.

## **1. New Features and Enhancements**

#### New Link NAT functionality: LDSNAT

LDSNAT (Link Destination + Source NAT) is a new configuration option that allows both source and destination addresses of individual packets to be replaced. With this release, this configuration is initially only available via a local file on the NCP Secure Enterprise VPN Server.

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## 2. Improvements / Problems Resolved

#### Troubleshooting: VRRP

Under certain circumstances, the subnet mask of a VRRP address was not set correctly on a network interface. This problem has been fixed.

#### Relay Exceptions do not work

The functionality of the Relay Exceptions was faulty. As a result, the client's endpoint security was not evaluated at the responsible gateway. Communication between the update client and the central management was also disrupted. This problem has been fixed.

#### Troubleshooting: RIP functionality

Bug fixes have been made within the RIP implementation. Under certain circumstances, a crash could occur if a connection was established with a locally configured link (not RADIUS link) with RIP functionality. This problem has been fixed.

#### Internal optimizations

The latency of the user data has been reduced by optimizing the data flow.

#### Troubleshooting: Domain group assignment

Under certain circumstances, a RADIUS or LDAP user could not be assigned to a domain group and was then in the default domain group. This problem has been fixed.

## 3. Known Issues

None.

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Minor Release:13.23 r30503Date:November 2023

#### **Prerequisites**

#### **Microsoft Operating Systems:**

The following Microsoft Operating Systems are supported with this release:

- Windows Server 2022
- Windows Server 2019

#### **Update Prerequisites**

Please read the instructions for updates of previous versions in the manual carefully.

#### The following versions are required for the use of other NCP components

- Secure Enterprise Management Server version 6.10 or higher
- Management Console version 6.10 or higher
- Management Plug-in Server Configuration Version 13.20 or higher
- Secure Enterprise HA Server version 13.20 or higher

#### **Removed Functionalities**

The following functionalities are no longer included in the product as of major release 13.0:

- Interface for Metadata Access Points (IF-MAP)
- FIPS mode
- SSL VPN functionality

Note: The corresponding management Plug-in Server Configuration does not include SSL VPN configuration for older server versions. If this is required, an older plug-in must be used.

## **1. New Features and Enhancements**

None.

## 2. Improvements / Problems Resolved

#### **ARRE** logging

The ARRE functionality has been adapted to log a client IP address. For this purpose, a corresponding host route is created in the routing table of the operating system.

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#### Tunnel forwarding fails with AES-GCM

In connection with IPsec clients from other manufacturers, an error could occur in the handling of DPD packets when AES-GCM encryption was configured as a result of a problem with tunnel forwarding. This problem has been fixed.

#### VLAN forwarding and communication in the decentralized network

If a connection was established from a decentralized SES to the central SES and VLAN forwarding was configured on this SES, the connected VPN clients could not communicate into the VLAN without interference. This problem has been fixed.

#### Issue resolved when terminating a Site-2-Site connection.

Under certain circumstances, disconnecting from a Site-2-Site connection could cause a crash. This problem has been fixed.

## 3. Known Issues

None.

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Minor Release:13.22 r30497Date:September 2023

#### **Prerequisites**

#### **Microsoft Operating Systems:**

The following Microsoft Operating Systems are supported with this release:

- Windows Server 2022
- Windows Server 2019

#### **Update Prerequisites**

Please read the instructions for updates of previous versions in the manual carefully.

#### The following versions are required for the use of other NCP components

- Secure Enterprise Management Server version 6.10 or higher
- Management Console version 6.10 or higher
- Management Plug-in Server Configuration Version 13.20 or higher
- Secure Enterprise HA Server version 13.20 or higher

#### **Removed Functionalities**

The following functionalities are no longer included in the product as of major release 13.0:

- Interface for Metadata Access Points (IF-MAP)
- FIPS mode
- SSL VPN functionality

Note: The corresponding management Plug-in Server Configuration does not include SSL VPN configuration for older server versions. If this is required, an older plug-in must be used.

## **1. New Features and Enhancements**

None.

## 2. Improvements / Problems Resolved

#### Unintentional disconnection of all VPN connections

If an NCP Secure Enterprise VPN Server (SES) with VRRP configuration was started, the VRRP announcement it sent caused other SESs to disconnect all VPN connections. This problem has been fixed.

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#### Domain group assignment error

Domain group mapping for incoming RADIUS or LDAP users did not work correctly in certain cases. This problem has been fixed.

#### VLAN forwarding and communication to the remote network

If a connection was established from a remote SES to the central SES and VLAN forwarding was configured on the central SES, the remote network could only be addressed after an initial incoming data packet on the central SES. This problem has been fixed.

#### **ARRE** logging

The ARRE functionality has been extended to include logging of a client IP address. For this purpose, a corresponding host route is created in the routing table of the operating system.

#### Static network routes not set

When updating to SES version 13.20, routing entries on the NCPO adapter were deleted and not recreated. This problem has been fixed.

#### Extension of the RADUIS dictionary

The RADUIS dictionary has been extended by the Extended-Vendor-Specific Attribute No. 209 NCPS-SplitTunnelNetWorks. This attribute is required for the configuration of up to 250 split tunneling networks per individual user.

#### Increase of the internal data buffer for parsing RADIUS packets

In the course of configuring up to 250 split tunneling networks per individual user it was necessary to increase the internal buffer for parsing RADIUS packets to 16 kByte.

#### Support of fragmented IKECFG messages

Within an IKEv1 connection (not for IKEv2) fragmented IKECFG messages could cause packet loss within the IKEConfig mode. This problem has been fixed.

#### Error message: "Error removing ARP extry"

Deleting routes and IP addresses on the TAP device failed and returned the error message "Error removing ARP extry". This problem has been fixed.

#### Error message "Error removing interface IP address"

Deleting routes and IP addresses on the TAP device failed and returned the error message "Error

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removing interface IP address" in case of VRRP functionality when switching from the master SES to the backup SES. This issue has been fixed.

#### Fixed a problem in the Local Machine NAT functionality.

#### Stability improvement of the VPN service

Fixed an issue that caused the VPN service to crash.

#### VRRP packets are discarded

VRRP packets that are not processed with NCP's own VRRP service were discarded. This behavior has been corrected and the VRRP packets are returned to the operating system for further processing.

## 3. Known Issues

None.

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Minor Release: 13.20 r30482 Date: June 2023

#### **Prerequisites**

#### Microsoft Operating Systems:

The following Microsoft Operating Systems are supported with this release:

- Windows Server 2022
- Windows Server 2019

#### **Update Prerequisites**

Please read the instructions for updates of previous versions in the manual carefully.

#### The following versions are required for the use of other NCP components

- Secure Enterprise Management Server version 6.10 or higher
- Management Console version 6.10 or higher
- Management Plug-in Server Configuration Version 13.20 or higher
- Secure Enterprise HA Server version 13.20 or higher

#### **Removed Functionalities**

The following functionalities are no longer included in the product as of major release 13.0:

- Interface for Metadata Access Points (IF-MAP)
- FIPS mode
- SSL VPN functionality

Note: The corresponding management Plug-in Server Configuration does not include SSL VPN configuration for older server versions. If this is required, an older plug-in must be used.

## **1. New Features and Enhancements**

#### New option: Allow RSA authentication with SHA-1 hash

According to Signature Authentication as defined in RFC7427, the SHA-1 hash is generally allowed for an incoming IKEv2 connection with RSA authentication. If the use of SHA-1 is not desired, this option can be disabled.

#### RFC 5685; IKEv2 redirect support for IPv6 and FQDNs added

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#### Preparation for up to 250 split tunneling configurations per individual user

The implementation of providing split tunneling configurations to the NCP Secure Client via IKEConfigMode currently multi-tenancy capable. This functionality has been extended to individual users, for both IPv4 and IPv6 split tunneling configurations. For configuration, an NCP Secure Enterprise Management Server version 7.0 or newer is required, as well as a RADIUS plug-in version 7.0 or newer.

New Radius parameters "Agent Circuit ID" and "Agent Remote ID"

## 2. Improvements / Problems Resolved

#### Troubleshooting: Display and configuration of the IP addresses of the network adapter

The display of the IP addresses of the network adapter associated with the NCP Secure Enterprise VPN Server did not work correctly. Likewise, the configuration of these IP addresses was not possible in certain cases. This problem has been fixed.

Improve compatibility with third-party manufacturers within the IKE negotiation

# Log message: Verification failed! CA certificate is not valid for hardware certificates

Sporadically a VPN connection cannot be established and the following message appears in the log messages at the gateway: Verification failed! CA certificate is not valid for hardware certificates

This problem has been fixed.

Troubleshooting: IPv6 VRRP Master advertisement

Troubleshooting: ncp0 adapter and local machine NAT

Troubleshooting: Account log does not contain user information

Troubleshooting: Wrong information in error log: Max. tunnels licensed=10000

Optimization of the IKEv2 Cookie Challenge

#### New NDIS driver version 6.86

The network driver has been upgraded to NDIS version 6.86. It appears in the system as follows: *NCP Secure Server Virtual NDIS Adapter 13.1.2302.0* 

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#### Troubleshooting: VLAN forwarding in load balancing mode

In load balancing mode, in combination with VLAN forwarding, data transfer to the VPN client was disrupted under certain circumstances. This problem has been fixed.

#### Troubleshooting: Loading crash dumps via server plug-in

If a crashdump was loaded via server plug-in, it could not be processed further. This problem has been fixed.

#### Crash of the VPN service

If a corrupted ESP packet or IKE\_AUTH message is received, this can cause the VPN service to crash. This problem has been fixed.

#### New OpenSSL version 1.1.1u

#### Issue resolved after restarting a gateway

In rare cases, after restarting a gateway within a load balancing federation, users with the same IP address could be connected to two gateways. This problem has been fixed.

#### Stability improvements in the ncpwsupd service

In case of rekeying an outgoing IKEv1 connection, the *ncpwsupd* service could crash. This problem has been fixed.

#### Issue resolved with backup RADIUS server control

Switching to the secondary RADIUS server in case of primary RADIUS server failure did not work reliably under certain circumstances. This problem has been fixed.

#### Fixed a problem related to the assignment of a DHCP server to a RADIUS user group

#### Performance optimizations

#### Support for RFC7383 (IKEv2 Message Fragmentation)

RFC7383 support has been added to improve compatibility with third-party components.

#### Modification of the IKEv2 Configuration Payload

The length of the IKEv2 Configuration Payload attribute type INTERNAL\_IP6\_ADDRESS has been changed from 16 bytes to 17 bytes. Accordingly, the prefix is now transmitted in addition to the IPv6 address.

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#### DDNS requests via IPv6

DDNS requests can now be made using IPv4 or IPv6.

#### Handling of a configured primary and secondary DHCP server was optimized

#### Revision of the user assignment by the suffix to a DomainGroup

A user suffix "abc.com" is now reliably assigned to a DomainGroup "abc.com", even in case another DomainGroup "new.abc.com" exists.

#### Extended option: Allow direct data exchange between VPN instances within a domain

If tunnel forwarding is configured on the NCP Secure Enterprise VPN Server, communication can take place from one VPN tunnel to another by setting the option "Allow direct data exchange between VPN instances within a domain". With this version this is also possible if the network adapters of the NCP Secure Clients are not in the same network of the virtual network adapter of the gateway.

#### Disabling the DHCP release when the VPN tunnel is disconnected

If the VPN connection is disconnected from the NCP Secure Client, the NCP Secure Enterprise VPN Server sends a *release* to the DNS server in case of an address assignment via DHCP. Sending the *release* can be disabled by the following configuration:

• Registry: DWORD Value: DhcpRelease (default = 1).

## 3. Known Issues

None.

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Major Release:13.10 r29631Date:November 2022

#### **Prerequisites**

#### **Microsoft Operating Systems:**

The following Microsoft Operating Systems are supported with this release:

- Windows Server 2022
- Windows Server 2019

#### **Update Prerequisites**

Please read the instructions for updates of previous versions in the manual carefully.

#### The following versions are required for the use of other NCP components

- Secure Enterprise Management Server version 5.30 or higher
- Management Console version 5.30 or higher
- Management Plug-in Server Configuration Version 13.10 or higher
- Secure Enterprise HA Server version 13.10 or higher

#### **Removed Functionalities**

The following functionalities are no longer included in the product as of major release 13.0:

- Interface for Metadata Access Points (IF-MAP)
- FIPS mode
- SSL VPN functionality

Note: The corresponding management Plug-in Server Configuration does not include SSL VPN configuration for older server versions. If this is required, an older plug-in must be used.

## **1. New Features and Enhancements**

#### Configuration for up to 255 split tunneling networks

Up to 255 split tunneling networks can now be configured within the SES configuration. This configuration is transferred to the NCP Secure Client within the IKE Config Mode during the connection setup.

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#### New option: Allow direct data exchange between VPN instances within a domain

If tunnel forwarding is configured on the SES, communication can take place from one VPN tunnel to another by setting the option "Allow direct data exchange between VPN instances within a domain".

#### New option: Domain names resolved in the tunnel

The option "Domain names resolved in the tunnel" is located within the domain group configuration. If one of the domains configured for this option is called on the client, the DNS request is sent through the VPN tunnel in conjunction with configured split tunneling.

#### New option: Domain Search Order

The "Domain Search Order" is located within the domain group configuration and is passed as a string to the existing client operating system.

For example, it supplements the computer name within a DNS request to the configured domains, e.g. company.local, company.com, ....

A user could thus navigate through the VPN tunnel to his target computers using only their computer names. For example, he enters computer-xy, which is supplemented by the operating system to computer-xy.company.local for the DNS request. If the request is not answered, the operating system requests computer-xy.company.com.

#### Disconnecting all active connections within a domain group

Within the menu item Statistics / Domain Groups the option to disconnect all active connections within a domain group has been added in the web interface as well as in the server plug-in.

## 2. Improvements / Problems Resolved

#### Improvement of the overall performance

Internal SES rebuilds result in better overall performance, especially on current CPUs with high CPU core counts or NUMA hardware.

#### Support for multiple traffic selectors for a Security Association

Multiple traffic selectors for a security association are supported for outbound IPv4 or IPv6 IPsec connections.

#### New OpenSSL version 1.1.1n

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#### Default TLS version: 1.2

SES uses TLS version 1.2 by default. If an older TLS version is required for VPN Path Finder II for compatibility reasons, this can be configured in the ncpsslvpn.conf file:

```
[General]
...
MinTlsVersion=1.0
Possible values: 1.0, 1.1, 1.2
```

#### Vulnerabilities in ncpweb service

The ncpweb service contained a vulnerability to a clickjacking attack and a vulnerability to cross-site scripting (XSS) attacks. These vulnerabilities have been fixed, and "HTTP Strict Transport Security" has been enabled.

#### Display of rights in access management incorrect

After installation, the rights of the default administrator were displayed incorrectly in the access management. This problem has been fixed.

Incorrect display of umlauts and license information in the web interface has been fixed.

Issue resolved for error message: User(Link) configuration error for User

Issue resolved: GRE protocol without source IP address

Issue resolved within GRE forwarding

#### Wrong SessionID in RADIUS account log

If a user is created using a local link profile, the SES always sends the same SessionID in the RADIUS accounting message. This problem has been fixed.

#### Troubleshooting for Site2Site coupling and DHCP

When using a DHCP relay in a branch office and a DHCP server in the central office, incoming DHCP requests were discarded. This problem has been fixed.

#### **Option: Use LDAP Bind for Authentication**

The "Use LDAP Bind for Authentication" option did not work in conjunction with IKEv2 EAP. This problem has been fixed.

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#### Update to zlib version 1.2.12

The zlib version used in SES has been upgraded to 1.2.12. This closed the zlib vulnerability CVE-2018-25032.

#### Update to cURL library 7.84.0

The cURL version used in the NCP Secure Enterprise VPN Server and Server Plug-in has been raised to 7.84.0. This closed the cURL vulnerabilities [CVE-2022-32205], [CVE-2022-32206], [CVE-2022-32207] and [CVE-2022-32208].

#### Troubleshooting Configured Link Selectors for IPv6

Configured link selectors for IPv6 were not evaluated correctly. This issue affects client-side split tunneling configuration within the domain group and has been fixed.

#### Problem solved with 4096 bit long RSA keys in the SES keystore.

#### Issue resolved within the web interface

In conjunction with current Chrome-based web browsers, the web interface was displayed read-only. This issue has been fixed.

#### RFC 3527 support to improve compatibility with Microsoft DHCP servers.

#### DNS server configuration via IPv6

As part of dual stack support, the DNS server used in the VPN tunnel can be configured via IPv6 address.

# Display of the GIT hash as CommitID in the web interface of the SES and High Availability server (HA server)

Only one default gateway allowed in the web interface within the network configuration Accidentally entering more than one default gateway results in an error situation. This problem has been fixed.

#### File/service paths "quoted" in registry

To generally increase security, paths to SES services created in the registry are now only "quoted". This further reduces the already low risk of a Local Privilege Escalation attack on current operating systems with unchanged standard rights on the system drive.

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# Problem solving with incorrect display of VPN tunnels in High Availability Server (HA server)

If call rejection was activated for an SES or if it was set to inactive in the HA server, this incorrectly reduced the number of VPN tunnels displayed. This problem has been fixed.

Improved load balancing for a large number of licensed VPN tunnels.

Issue resolved: Syslog configuration within domain groups cannot be switched as user parameter

Issue resolved: Copy/Paste error when pasting the MAC address into the server configuration.

#### Troubleshooting identical user names in link profiles

If two link profiles with identical user names were distributed to the SES via SEM, this caused an error situation that could not be solved by renaming the user in one link profile (Replication Error). This problem has been fixed.

Troubleshooting an error message occurring on the NCP Secure Client: "PKI: Verification failed! CA certificate is not valid for hardware certificates."

No restart of the SES after changing the license or the "HA LB mode" within the licensing necessary anymore

#### Vulnerabilities in the ncpweb service

The ncpweb service contained a vulnerability to a clickjacking attack. These vulnerabilities have been fixed.

#### Copy and paste function in server plug-in

The copy and paste function is now available for the following nodes in the server template:

- Link Profiles
- IKEv1, IKEv2 and IPsec policies
- Filters, Filters Networks, Filters Groups
- Server Certificates
- Domain Groups
- Listeners

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## 3. Known Issues

None.

## 4. Getting Help for the NCP Secure Enterprise VPN Server

To ensure that you always have the latest information about NCP's products, always check the NCP website at:

https://www.ncp-e.com/en/products/centrally-managed-vpn-solution/gateway/

## 5. Features of the NCP Secure Enterprise VPN Server

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Operating Systems	Windows Server 2022, Windows Server 2019
	Debian, Red Hat or SUSE Linux Enterprise Server in the mentioned versions
Management	Administrators can configure and manage NCP Virtual Secure Enterprise Server via the NCP Secure Enterprise Management Plug-in or the web interface
Network Access Control (Endpoint Security)	<ul> <li>Endpoint policy enforcement for incoming data connections. Verification of predefined, security-relevant client parameters. Measures in the event of target/actual deviations in</li> <li>Disconnect or continue in the quarantine zone with instructions for action (message box) or start of external applications (e.g. virus scanner update), recording events in log files.</li> <li>(Please refer to the Secure Enterprise Management data sheet for more information)</li> </ul>
Dynamic DNS (DynDNS)	Connection set up via Internet with dynamic IP addresses. Registration of each current IP address with an external Dynamic DNS provider. In this case the VPN tunnel is established via name assignment. (The VPN client must support DNS resolution, this is supported by NCP Secure Clients.)
DDNS	Connected VPN clients are registered with the domain name server via Dynamic DNS (DDNS), meaning that VPN clients with dynamic IPs can be reached via a (permanent) name
Network Protocols	IP, VLAN support
Multi-Tenancy	<ul> <li>Group capability; support of max. 256 domain groups (i.e. configuration of: authentication, forwarding, filter groups, IP pools, bandwidth limitation)</li> <li>Alternative default certificates can be configured for other domain groups.</li> <li>The Virtual Secure Enterprise VPN Server can select the most suitable certificate based on the client request (for example the certificate with the longest validity period).</li> </ul>
User Administration	Local user administration (up to 750 users); OTP server; RADIUS; LDAP, Novell NDS, MS Active Directory Services
Statistics and Logging	Detailed statistics, logging functionality, sending SYSLOG messages
Client/User Authentication Processes	OTP token, certificates (X.509 v.3): User and hardware certificates (IPsec), user name and password (XAUTH)
Certificates (X.509 v.3)	
Server Certificates	It is possible to use certificates which are provided via the following interfaces: PKCS#11 interface for encryption tokens (USB and smart cards); PKCS#12 interface for private keys in soft certificates
Revocation Lists	Revocation: EPRL (End-entity Public-key Certificate Revocation List, formerly CRL), CARL (Certification Authority Revocation List, formerly ARL)

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Online Check	Automatic downloads of revocation lists from the CA at predefined intervals; Online validation of certificates via OCSP or OCSP over http
Connection Management	
Line Management	Dead Peer Detection (DPD) with configurable time interval; Timeout (controlled by duration and charges)
Point-to-Point Protocols	LCP, IPCP, MLP, CCP, PAP, CHAP, ECP
Pool Address Management	Reservation of an IP address from a pool for a defined period of time (lease time)
IPsec VPN	
Virtual Private Networking	IPsec (Layer 3 tunneling), RFC-conformant; Automatic adjustment of MTU size, fragmentation and reassembly; DPD; NAT Traversal (NAT-T); IPsec modes: Tunnel Mode, Transport Mode Seamless Rekeying; PFS
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, IKEv2 (incl. MOBIKE), IKEv2 Signature Authentication, XAUTH, IKECFG, DPD, NAT Traversal (NAT-T), UDP encapsulation, IPCOMP, IKEv2 authentication conformant to RFC 7427 (padding process)
Encryption	Symmetric processes: AES (CBC/CTR/GCM) 128, 192, 256 bits; Blowfish 128, 448 bits; Triple-DES 112, 168 bits; Dynamic processes for key exchange: RSA to 4096 bits; Diffie-Hellman Groups 1, 2, 5, 14-21, 25-30; Hash algorithms: SHA-1, SHA 256, SHA 384 or SHA 512
Firewall	Stateful packet inspection; IP-NAT (Network Address Translation); Port filtering; LAN adapter protection
VPN Path Finder	NCP Path Finder Technology: Fallback to HTTPS from IPsec (port 443) if neither port 500 nor UDP encapsulation are available
Seamless Roaming	With Seamless Roaming in the NCP Secure Client, the system can automatically transfer the VPN tunnel to a different communication medium (LAN / Wi-Fi / 3G / 4G) without changing the IP address to avoid interrupting communication via the VPN tunnel or disconnecting application sessions.
Authentication Processes	IKEv1 (Aggressive and Main Mode), Quick Mode; XAUTH for extended user authentication; IKEv2, EAP-PAP / MD5 / MS-CHAP v2 / TLS

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	Support for certificates in a PKI: Soft certificates, certificates with ECC technology; Pre-shared keys; One-time passwords and challenge response systems; RSA SecurID ready
IP Address Allocation	DHCP (Dynamic Host Control Protocol) over IPsec; RFC 3527; DNS: Selection of the central gateway with dynamic public IP address by querying the IP address via a DNS server; IKE config mode for dynamic assignment of a virtual address to clients from the internal address range (private IP) Different pool can be assigned depending on the connection medium. (Client VPN IP)
Data Compression	IPCOMP (Izs), Deflate
Recommended VPN Clients / Compatibility NCP Secure Entry Clients NCP Secure Enterprise Clients	Windows, macOS Windows, macOS, iOS, Android, Linux

