Release Notes





Service release:4.30 r27989Date:October 2022

## Prerequisites

Android 12 to Android 6

#### VPN gateway

Juniper SRX Series

## Prerequisites for the central management via

#### NCP Exclusive Remote Access Management

To manage the client software centrally via NCP Exclusive Remote Access Management the following plugins are required:

Version 5.30 or newer

Version 13.00

- NCP Exclusive Remote Access Management:
- NCP Management Console: Version 5.30 or newer
  Client Configuration Plugin: Version 13.10
- License Plugin:

## 1. New Features and Enhancements

#### Adaptation to current Android versions

The VPN client has been adapted to current Android versions and now supports Android 6 to 12.

# 2. Improvements / Problems Resolved

#### New option: Authentication

Authentication setting has been added to the local client configuration: Pre Shared Key, Certificate, EAP

#### Problem solving with log output on Android 8

## **OpenSSL** security patch

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





## 3. Known Issues

## Configuration of IPsec/IKE Proposals via Central Management

Several profiles can be assigned the same proposals with configuration via central management. This type of configuration is not supported in the client. Each profile must have its own proposals.

## **Configuration Locks**

The configuration dialogs in the Management Plug-in differ from the client GUI. This means that not all individually set parameter locks in the plug-in affect the configuration parameters in the client.

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Service release: 4.12 r 43041 Date: March 2019

## Prerequisites

Android 9 to Android 4.4

VPN gateway Juniper SRX Series

## Prerequisites for the central management via

#### NCP Exclusive Remote Access Management

To manage the client software centrally via NCP Exclusive Remote Access Management the following plugins are required:

Version 11.13

- NCP Exclusive Remote Access Management: Version 5.0 or newer
   NCP Management Console: Version 5.0
   Client Configuration Plugin: Version 11.13
- License Plugin:

# **1. New Features and Enhancements**

None.

# 2. Improvements / Problems Resolved

## Error Using Mobile Device Management Tools

An attempt to load the client software into Mobile Device Management Tools (MDM) failed with an error message. This issue has been resolved.

## 3. Known Issues

## Configuration of IPsec/IKE Proposals via Central Management

Several profiles can be assigned the same proposals with configuration via central management. This type of configuration is not supported in the client. Each profile must have its own proposals.

## **Configuration Locks**

The configuration dialogs in the Management Plug-in differ from the client GUI. This means that not all individually set parameter locks in the plug-in affect the configuration parameters in the client.

**Release Notes** 





Service release: 4.11 r42317 Date: January 2019

### Prerequisites

Android 9 to Android 4.4

## VPN gateway

Juniper SRX Series

## Prerequisites for the central management via

#### NCP Exclusive Remote Access Management

To manage the client software centrally via NCP Exclusive Remote Access Management the following plugins are required:

- NCP Exclusive Remote Access Management: Version 5.0 or newer
   NCP Management Console: Version 5.0
   Client Configuration Plugin: Version 11.13
- License Plugin: Version 11.13

# **1. New Features and Enhancements**

None.

# 2. Improvements / Problems Resolved

## Incorrect DNS queries with Configured DNS suffix

If the DNS was configured with a DNS suffix in IKECFG mode, the DNS suffix was incorrectly added to a DNS query. This issue has been resolved.

## 3. Known Issues

## Configuration of IPsec/IKE Proposals via Central Management

Several profiles can be assigned the same proposals with configuration via central management. This type of configuration is not supported in the client. Each profile must have its own proposals.

## **Configuration Locks**

The configuration dialogs in the Management Plug-in differ from the client GUI. This means that not all individually set parameter locks in the plug-in affect the configuration parameters in the client.

**Release Notes** 





Service release: 4.10 r41665 Date: November 2018

## Prerequisites

Android 9 to Android 4.4

#### VPN gateway

Juniper SRX Series

## Prerequisites for the central management via

#### NCP Exclusive Remote Access Management

To manage the client software centrally via NCP Exclusive Remote Access Management the following plugins are required:

NCP Exclusive Remote Access Management: Version 5.0 or newer
NCP Management Console: Version 5.0
Client Configuration Plugin: Version 11.13
License Plugin: Version 11.13

# **1. New Features and Enhancements**

## Biometric Authentication (e.g. Fingerprint or Face Recognition) Before VPN

## Connection

To prevent unauthorized third parties from establishing a VPN connection, optional biometric authentication has been integrated in the NCP Secure Client prior to VPN connection. If this option is enabled, the prompt for user authentication is displayed directly after clicking the Connect button in the client GUI. The VPN will only connect if authentication is successful. Biometric authentication requires the Android 6 or above. For older operating systems or if a biometric device is not available, an alternative authentication method such as a password can be enabled. This option is only available for manual and variable connection modes.

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# 2. Improvements / Problems Resolved

#### Successful Connection Without Entering Username and Password

If a VPN profile was configured with user authentication via username and password, credentials were only queried during the first connection. The user was only prompted to enter the username and password again if the profile was changed. This issue has been resolved.

## 3. Known Issues

#### Configuration of IPsec/IKE Proposals via Central Management

Several profiles can be assigned the same proposals with configuration via central management. This type of configuration is not supported in the client. Each profile must have its own proposals.

## **Configuration Locks**

The configuration dialogs in the Management Plug-in differ from the client GUI. This means that not all individually set parameter locks in the plug-in affect the configuration parameters in the client.





# 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 at:

https://www.ncp-e.com/en/service-resources/download-vpn-client/version-information/

For further information about the NCP Exclusive Remote Access Client, visit:

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

For further assistance with the NCP Exclusive Remote Access Client, visit: https://www.ncp-e.com/en/company/contact/

## 5. Features

## Management and Licensing

The NCP Exclusive Remote Access Android Client software package is designed to be used with the NCP Exclusive Remote Access Management. Therefor the license and VPN Connection Profile parameters are centrally managed by and distributed from an NCP Exclusive Remote Access Management.

## Standards

Support of all Internet Society IPsec Standards

#### **Virtual Private Networking**

- RFC conformant IPsec (Layer 3 Tunneling),
  - IPsec Tunnel Mode
  - IPsec proposals can be determined by the IPsec gateway (IKE, IPsec Phase 2);
  - Event log;
  - Communication only in tunnel;
  - Message Transfer Unit (MTU) Size Fragmentation und Reassembly;
  - Network Address Translation Traversal (NAT-T);
  - Dead Peer Detection (DPD);
  - NAT-Traversal (NAT-T);

#### Encryption

Symmetric processes: AES-CBC, AES-CTR (RFC 3686, 5930) je mit 128, 192, 256 Bits; Blowfish 128, 448 Bits; Triple-DES 112, 168 Bits;

Dynamic processes for key exchange: RSA bis 4096 Bits; Seamless Rekeying (PFS);

Hash Algorithms: SHA-256, SHA-384, SHA-512, MD5, DH Gruppe 1, 2, 5, 14-18, 19-21, 25, 26;

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#### **FIPS Inside**

The NCP Exclusive Remote Access Client uses an embedded FIPS 140-2-validated cryptographic module (Certificate #1747) running on an Android platform per FIPS 140-2 Implementation Guidance section G.5 guidelines.

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 bits
- Encryption Algorithms: AES with 128, 192 or 256 bits or Triple DES

#### **Authentication Process**

- IKEv1 (Aggressive und Main Mode), Quick Mode;
  - XAUTH for extended user authentication;
  - IKE Config Mode for the dynamic assignment of a virtual address from an IP pool (private IP);
  - PFS
- IKEv2
- Pre-shared Secrets
- One-Time-Password with challenge response

#### **Strong Authentication**

- PKCS#12 Interface for using User (Soft) Certificates
- PKCS#11 library (Certgate and TCOS (on request)) for encryption tokens
- One-Time Passwords and Challenge Response System; RSA SecurID Ready

#### **Network Protocol**

• IP

#### Auto Reconnect

- A connection is automatically established if the Internet connection has been interrupted or the communication medium has changed from WiFi to mobile data transmission.
- Configurable connection mode (always, manual)

#### **VPN Path Finder**

 NCP VPN Path Finder Technology, Fallback IPsec /HTTPS (Port 443) when port 500 or UDP encapsulation can not be used (prerequisite: NCP VPN Path Finder Technology required at the VPN Gateway)

#### **IP Address Assignment**

- Dynamic Host Control Protocol (DHCP);
- Domain Name Server (DNS):
  - central VPN gateway selection using public IP address allocated by querying a DNS server

# **Release Notes**





#### Line Management

- Dead Peer Detection (DPD) with configurable polling interval;
- WLAN Roaming (Handover);
- Timeout

#### **Data Compression**

• IPCOMP (lzs), Deflate

#### **Other Features**

- UDP encapsulation
- Import function supporting file formats: \*.ini, \*.pcf, \*.wgx und \*.spd

#### **Internet Society RFCs and Drafts**

RFC 4301 (IPsec), RFC 4303 (ESP), RFC 3947 (NAT-T), RFC 3948 (UDP encapsulation), RFC 7296 (IKEv2), RFC 4555 (MOBIKE)

#### **Client Monitor Intuitive GUI**

- Widgets,
- Configuration, import and export,
- Connection control and management, connection statistics, log files,
- Trace tool for error diagnosis,