Release Notes

NCP Virtual Secure Enterprise VPN Server

Minor release: 14.20 r32658
Date: August 2026

Prerequisites

Virtualization Platform

The following virtualization platforms are supported with this release:

- VMware vSphere Hypervisor (ESXi) 8.0
- VMware Workstation Version 26
- Microsoft Hyper-V for Windows Server 2025
- Debian KVM version 13

Requirements for operating the NCP Virtual Secure Enterprise VPN Server (vSES)

The following versions are required for using other NCP components:

- Secure Enterprise Management Server (SEM) Version 8.11 or newer
- Management Console Version 8.11 or newer
- Management Plug-in Server Configuration Version 14.20 or newer

Changes within the network configuration

When vSES is installed, the network adapters are renamed `eth_int[n]` or `eth_ext[n]` (when using only one network interface in `eth_int`). These network adapters can be named individually as required using the `vses-network-config` configuration tool. Unlike previous versions of vSES 14.00 or earlier, the individual network adapters are no longer referenced by their MAC address, but by their name. Further information, especially for updates, can be found in the manual.

1. New features and enhancements

None.

2. Improvements / Problems Resolved

OpenSSL Security Update Due to “Hollowbyte”

The OpenSSL library has been updated to version 3.5.7. This update addresses the following OpenSSL vulnerabilities:

CVE-2026-45447/CVE-2026-34182/CVE-2026-34183/CVE-2026-35188/ CVE-2026-42764/CVE-2026-45445/CVE-2026-7383/CVE-2026-9076/CVE-2026-34180/CVE-2026-34181/CVE-2026-42765/ CVE-2026-42766/CVE-2026-42767/CVE-2026-42768/CVE-2026-42769/CVE-2026-42770/CVE-2026-42771/CVE-2026-45446.

Crash of the *ncpsslvpnd* Service

Under certain circumstances, a VPN Path Finder 1 connection could cause the *ncpsslvpnd* service to crash. This issue has been resolved.

Crash in the SEM Console

Within the HA server templates, the option to insert an entry was available for every editable subitem, even if no entry had been selected for copying beforehand. Attempting to insert an entry then caused an access violation in the NCP Secure Management Console. This issue has been resolved.

Adaptation of the SES Crash Handler for Debian 13

The SES Crash Handler was not functioning correctly with Debian 13. This issue has been resolved.

Configuring Network Interfaces

If the MAC address of a network card is displayed as “00.00.00.00.00.00,” this input field can no longer be edited in this version. Since network adapters have been referenced by name since version 14.10, manually entering the MAC address when switching network adapters causes problems.

Initialization of the GeoBlocking Feature

Successful initialization of the GeoBlocking feature is now displayed in the system log by default.

Minimum RSA Key Length

Starting with this version, the minimum RSA key length for newly created domain groups is 2048 bits.

Missing SSH Host Keys After Update

Existing SSH host keys were not retained after an ISO update of vSES. This issue has been resolved.

Manually Configuring the Time During Installation

It was not possible to set the time manually during the installation routine. This issue has been resolved.

3. Known Issues

GEOBLOCKING Log Level

The log level for GEOBLOCKING cannot be set to the default in the server plug-in. Instead, it is set to "`Info`." A restart is required to reset it to the default.

SSH service always enabled after a vSES update

The SSH service is always enabled after a vSES update, even if it was disabled on the previous vSES.

Minor release: 14.10 r32489
Date: June 2026

Prerequisites

Virtualization Platform

The following virtualization platforms are supported with this release:

- VMware vSphere Hypervisor (ESXi) 8.0
- VMware Workstation Version 26
- Microsoft Hyper-V for Windows Server 2025
- Debian KVM version 13

Requirements for operating the NCP Virtual Secure Enterprise VPN Server (vSES)

The following versions are required for using other NCP components:

- Secure Enterprise Management Server (SEM) Version 8.11 or newer
- Management Console Version 8.11 or newer
- Management Plug-in Server Configuration Version 14.10 or newer

Important Notes on Updating to the Latest vSES Version

This new version of vSES requires an update via the ISO image; in other words, it is not possible to update directly online from a previous version. For more information on migrating from the previous version to this version, please refer to the manual.

Changes within the network configuration

When vSES is installed, the network adapters are renamed `eth_int[n]` or `eth_ext[n]` (when using only one network interface in `eth_int`). These network adapters can be named individually as required using the `vses-network-config` configuration tool. Unlike previous versions of vSES, the individual network adapters are no longer referenced by their MAC address, but by their name. Further information, especially for updates, can be found in the manual.

1. New features and enhancements

Configuration: RFC 7427 Padding Scheme

Within the `Domain Groups/IPsec` configuration, you can select the padding scheme in accordance with RFC 7427 and configure the padding scheme itself for incoming connections. For outgoing connections, the setting is configured within `Link Profile/IPsec Options`.

Management Tunnel for Remote Gateways

To ensure centralized management of remote gateways, a management tunnel can be defined within the `Link Profile/VPN` configuration (checkbox: “Enable management tunnel”). This setting prevents the link from being disconnected if the SES switches to backup status.

2. Improvements / Problems Resolved

Update to Debian 13 (Trixie)

The vSES base operating system has been upgraded to Debian 13 (Trixie).

Update to OpenSSL 3.5.6

The update to OpenSSL 3.5.6 addressed the following security vulnerabilities:
NCPVE-2025-1015, CVE-2025-11187, CVE-2025-15467, CVE-2026-28386, CVE-2026-28387, CVE-2026-28388, CVE-2026-28389, CVE-2026-31789, CVE-2026-31790, CVE-2026-31791

Update to Open Source Third-Party Packages

A list of the open source third-party packages used can be found in the provided file OpenSourceLicenseTerms.pdf.

Updates to SSH Hash Algorithms

The list of supported SSH hash algorithms has been updated—SHA-1 has been removed.

Addition of Security Headers

Security headers have been added to the web service responsible for the VPN Path Finder functionality.

Incorrect configuration of user parameters

The configuration of user parameters within Domain Groups/IP Address Assignment was incorrect. This issue has been resolved.

Storage location of wsupwatch.log and ncptrace.log corrected

The two log files `wsupwatch.log` and `ncptrace.log` were stored in the wrong directory. This issue has been resolved.

DDNS: IPv6 configuration

The DDNS feature within `Domain Groups/DDNS` is now IPv6-compatible.

License effective only after server restart
After importing an SES license, it becomes effective only after a restart. This issue has been resolved.

Improved Stability
Stability has been improved with regard to incorrectly configured log file paths. Corresponding error messages appear in the `systemd journal`.

`Restart Services` Does Not Work
The `Restart Services` option in the Server Plug-in causes the server services to stop, but they do not restart. This issue has been resolved.

Restarting the VPN Service
If the operating system's network service was restarted, the NCP VPN service was also restarted incorrectly. This issue has been resolved.

Improved stability when the `ncpsslvpnd` service crashes
If the `ncpsslvpnd` service crashes, the entire SES is no longer restarted; instead, only the `ncpsslvpnd` service is restarted.

Storing program files in `/usr`
With the update to Debian 13 (Trixie), NCP program files are now stored in `/usr`.

Data compression removed
The data compression configuration within `IPsec policies` has been removed.

3. Known Issues

GEOBLOCKING Log Level
The log level for GEOBLOCKING cannot be set to the default in the server plug-in. Instead, it is set to "`Info`." A restart is required to reset it to the default.

Trial Period After a Major Update
After a major update, the trial period for an unlicensed previous version is not reset to a "new" 30 days.

Major release: 14.00 r32190
Date: December 2025

Prerequisites

Virtualization Platform

The following virtualization platforms are supported with this release:

- VMware vSphere Hypervisor (ESXi) 8.0
- VMware Workstation Version 26
- Microsoft Hyper-V for Windows Server 2025
- Debian KVM version 13

Requirements for operating the NCP Virtual Secure Enterprise VPN Server (vSES)

The following versions are required for using other NCP components:

- Secure Enterprise Management Server (SEM) Version 8.10 or newer
- Management Console Version 8.00 or newer
- Management Plug-in Server Configuration Version 14.00 or newer

Important information about updating to the current vSES version

This new version of vSES requires a new installation, i.e., it is not possible to update directly from a previous version. Further information on migrating from the previous version to this version can be found in the manual.

Changes within the network configuration

When vSES is installed, the network adapters are renamed `eth_int[n]` or `eth_ext[n]` (when using only one network interface in `eth_int`). These network adapters can be named individually as required using the `vses-network-config` configuration tool. Unlike previous versions of vSES, the individual network adapters are no longer referenced by their MAC address, but by their name. Further information, especially for updates, can be found in the manual.

1. New features and enhancements

Maintenance mode

Maintenance mode offers a simple option for removing one or more VPN gateways from productive operation. This means that no incoming connections are accepted at the affected gateways, allowing updates or other work to be carried out at a later date. Maintenance mode must then be deactivated again.

Server certificate distribution

A server certificate imported into the server plug-in can be distributed to managed gateways via the NCP Secure Enterprise Management Server from version 8.0 onwards.

GeoIP blocking

IP-based access control has been implemented to prevent access from unwanted regions of the world. In this first version, this functionality can only be used through files available locally on the NCP Secure Enterprise VPN Server – a country-IP address range database file from Maxmind and an associated configuration file. For future versions, central configuration via SEM is planned for this function.

Within the configuration file, countries or your own IP address ranges can be individually configured as blacklists or whitelists for domain groups.

UEFI support

In addition to BIOS, vSES also supports UEFI starting with this version.

Statistics extension

The statistics in the “local system” area have been extended to include discarded packets within the Linux NFQueue.

2. Improvements / Problems Resolved

Update of the base operating system to Debian 12

Update to OpenSSL 3.5 and update of other open source libraries

The OpenSSL version used in SES has been upgraded to version 3.5. In addition, the open source libraries contained in SES have been updated. The respective versions can be found in the document “OpenSourceLicenseTerms.pdf”.

Stability improvement in connection with a restart

If the vSES was restarted due to a configuration change, the Sysconfig daemon crashed during a simultaneous check for available updates in the repository. This problem has been fixed.

Stability improvement of the salted hash functionality

With the introduction of the salted hash feature, the ncpsrvmgmd service could crash under certain conditions. This issue has been resolved.

Troubleshooting: “Forward SEM requests” option has no effect

The “Domain group”/‘Forwarding’/“Forward SEM requests” option had no effect. The problem has been fixed.

Stability improvement related to SES shutdown

In rare cases, the VPN server daemon could crash when shutting down the SES. This issue has been fixed.

DNS server is not transferred via DHCP

If a DHCP server was configured in a domain group and the configuration for the DNS servers was omitted, the DNS servers distributed via DHCP were not transferred to the clients, or only one of them was transferred. This problem has been fixed.

Troubleshooting: Crash of a remote site gateway when dialing into the head office

Due to an incorrect VRRP configuration, the backup gateway at a remote site incorrectly attempted to establish a connection to the head office. This caused the backup gateway to crash. The problem that led to the crash has been fixed.

Disabling IPv6 on the NCP adapter

As with the other network adapters, IPv6 can also be disabled for the NCP network adapter starting with this server version.

New storage location for the `ncpwsupd.conf` file

The storage location for the `ncpwsupd.conf` file will be `/opt/ncp/vses/etc/ncpwsupd.conf` in future. When the SES is updated, the file is automatically moved there and can then only be written to by root.

Error message when calling `vses-license`

When calling `vses-license` or `vhas-license`, an error message was generated in the operating system log. This problem has been fixed.

Error when selecting the server certificate

If multiple server certificates are configured in a domain group, under certain circumstances, the certificate selected by the administrator was not used for authentication with the client. This issue has been resolved.

Remote SES sporadically unavailable during Site2Site connection

In a Site2Site scenario, a remote SES establishes a connection to the central SES. In rare cases, every IP address in the remote network can be accessed from the central side, but the remote SES itself cannot. This issue has been resolved.

Added software version information to the installer

RIP unicast only to one master router

The SES offers up to four configurable master routers as recipients of a RIP unicast. However, only the first one was addressed. This problem has been fixed.

Troubleshooting: DDNS update packet with incorrect source IP address

Protect LAN adapters

If the “Protect LAN adapters” option was enabled, no data exchange via IPv6 was possible on the relevant network interface. This problem has been fixed.

Server plug-in - DH groups added

The IPsec options for the IKE DH and PFS group entries have been supplemented with groups 27-30.

Troubleshooting: SES crash with log message: ncpwsup -> watchdog expired

3. Known Issues

`Restart Services` does not work

The `Restart Services` option in the Server Plug-in causes the server services to shut down, but they do not restart.

Entered license is only applied after restart

In the event of an update from a licensed SES version 13.x, the SES must be restarted after importing the current license version 14. This also applies to license entry after a new installation in the event of an expired trial period.

Combination of client certificate with ECC and SES with RSA does not work

If certificates with Elliptic Curve Cryptography (ECC) are used on the client and an RSA server certificate is configured on the SES, no connection can be established. The following error message appears on the client:

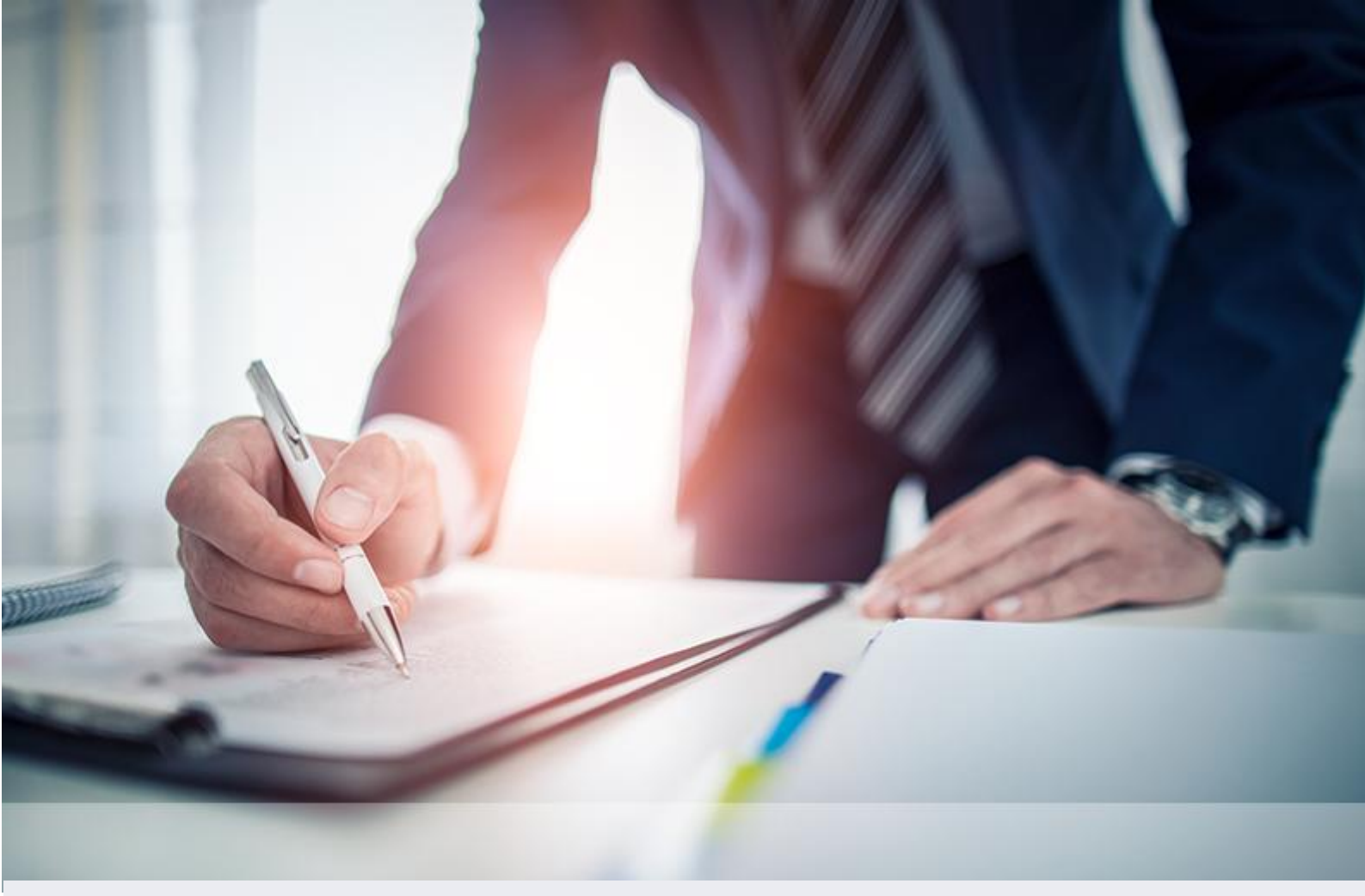
```
ERROR - 4036: Auth - PKI ERROR: - <> Verify Server certificate with error
2107! (Ext. ‘SSL Server Authentication’ failed)
```

This problem will be fixed in a future version of the gateway with the configuration option for the RFC7427 padding method.

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

To ensure that you always have the latest information about the NCP Virtual Secure Enterprise VPN Server, always check the NCP website at:

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



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