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# NCP

## Release Notes

### NCP Secure Enterprise Management

for Linux



**Major release: 7.10 r30728**

**Date: September 2023**

### Prerequisites

#### Operating System

The following Linux distributions are supported with this release:

- SUSE Linux Enterprise Server 15
- Red Hat Enterprise Linux 9.2 (x86-64)
- Debian GNU/Linux 11/12 (x86-64)

#### Database

The following operating system/database combinations with associated driver have been tested and approved:

Linux distribution	Database	Driver
Red Hat Enterprise Linux 9.2	MariaDB 10.5.16	ODBC MariaDB 3.1.17
SUSE Linux Enterprise Server 15 sp5	MariaDB 10.6.14	ODBC MariaDB 3.1.19
Debian GNU/Linux 12	MariaDB 10.11.3	ODBC MariaDB 3.1.19
Debian GNU/Linux 11	MariaDB 10.5.15	ODBC MariaDB 3.1.17

### Prerequisites for NCP Secure Enterprise Management (SEM)

The following components are required to use this SEM version:

- NCP Management Console: Version 7.10 or newer
- VS GovNet Connector Configuration Plug-in: Version 2.20 or newer
- Client Configuration Plug-in: Version 13.10 or newer
- Firewall Plug-in: Version 13.00 or newer
- License Plug-in: Version 13.00 or newer
- Server Configuration Plug-in: Version 13.20 or newer
- Radius-Plug-in: Version 7.10 or newer
- PKI Enrollment Plug-in: Version 7.10 or newer
- Endpoint Policy Plug-in: Version 6.20 or newer
- Script Plug-in: Version 6.10 oder neuer

## 1. New features and enhancements

### New user authentication via SAML protocol

With version 7.10 of the NCP Secure Enterprise Management Server, NCP introduces the SAML protocol for user authentication. To use this functionality, the NCP Authentication Provider 1.1 and the NCP Secure Enterprise Client 13.13 for Windows or NCP Secure Enterprise Client 4.70 for macOS are required.



The user logs in via SAML authentication using 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 NCP Authentication Provider represents the interface to the NCP solution, NCP Secure Enterprise Management.

### New SEM Dashboard

Starting from this version, the status and logs of the components connected to the SEM, such as SEM, Backup SEM, SES and HA Server, can be viewed via web browser in the SEM Dashboard. In case of an update of the SEM it is necessary to add the following **entry** to the `[InstallDir]/etc/nginx/nginx.conf` file to activate the dashboard:

```
http {
    .....

    # Activation from Time-based OTP web rollout
    include                usrmgm.conf;
    #
    # Activation from REST API and WEB UI
    include                admmgm.conf;
}
```

### Management of the NCP VS GovNet Server

With version 7.10 of the NCP SEM, the NCP VS GovNet Server from version 2.0 can be configured centrally via the server plug-in. Along with this enhancement, a new product type – VS GovNet HA Server – has to be selected in the server plug-in for the configuration of the High Availability Service.

### New OpenSSL Version 1.1.1v

The NCP SEM as well as the NCP SEM console have been updated to OpenSSL version 1.1.1v.

### 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 is currently multi-tenancy capable, starting with the use of NCP Secure Enterprise VPN Server 13.10. 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 7.10 or higher, a RADIUS plug-in version 7.10 or higher, an NCP Secure Enterprise VPN Server version 13.22 or higher, and a Client Configuration Plug-in version 13.14 or higher are required.

### Extension of NCP Scripting

The NCP scripting was extended by the function to delete subgroups. This function is available as of script plug-in 7.10.

## 2. Improvements / Problems Resolved

### Refresh button in the SEM console

By pressing the Refresh button in the SEM console, the contents of all displayed plug-ins are updated. Plug-ins with a revision greater than 30669 are assumed.

### PPU licensing / license report

Within the license report, this SEM version differentiates between LAN update and VPN dial-in for all products. In the license report, this is indicated by an appended "LAN update" for the respective product. When using the VS GovNet Connector, the restriction applies that, due to the lack of a transferred user name, no LAN update can be recorded here when billing via user names.

The number of VPN tunnels used is recorded separately for the VS GovNet Connector from other (v)SEs.

### Memory allocation error in CSP interface fixed

If the certificate of the NCP Secure Enterprise Management Server was stored in the Windows CSP, crashes could occur due to a memory allocation error. This problem has been fixed.

### Error when uploading client logs

In connection with an Oracle database the following message could appear when uploading client log files: `SQL CMD failed: insert into UserAuditLog ...`

This problem has been fixed.

### Fixed licensing error

When using an NCP Virtual Secure Enterprise VPN Server, the licensed number of tunnels was not transferred correctly when transferring licenses to the associated NCP Virtual HA Server. This problem has been fixed.

### Comments within `.conf` files

In addition to the hash symbol "#", a semicolon ";" for introducing a comment in the respective `.conf` files will be supported in the future.

### Representation of user parameters

RADIUS attributes that are not configured as user parameters in a template are displayed grayed out / not editable within the user parameter configuration.

### Troubleshooting for accesses via REST API

If the REST API was accessed via multithreading, the `ncp-sem.service` crashed. This problem has been fixed.



### Troubleshooting: Inheritance of permissions to administrators in subgroups

#### Handling of Update list

If the property "user specific" was removed for an update list and set again, the update list was not enabled afterwards. This problem has been fixed.

#### Coupling of SEM to Microsoft PKI

When using the PKI Enrollment Plug-in version 4.x with a SEM version 6.x, no connection to Microsoft's Certificate Services servers could be established with the provided helper service, named NCPPKISRV. This problem has been fixed with the PKI Enrollment Plug-in version 7.00 and the included updated helper service.

#### Web login to the NCP SEM to view the TOTP QR code not possible

If "OTP Server" was selected in the "RADIUS Group Settings" under Protocol, a web login to the NCP SEM to view the TOTP QR code was not possible. This problem has been fixed.

#### Adjusting the rights for user administrators

To increase operational security, user administrators are not allowed to create or modify scripts without explicitly assigned rights as of this version. In case of an update from an older NCP SEM version, however, these rights remain set and must be removed if necessary.

#### Revised error message

The error message when using a self-signed administration certificate of the VS GovNet Server has been revised.

#### Deleting SEM groups

If a SEM group was deleted in the console, it was not synchronized with other opened SEM consoles. This issue has been fixed.

#### Crash when using the REST API

If RADIUS users were created using the REST API in multithreaded mode, this caused SEM to crash. This problem has been fixed.

## 3. Known Issues

### The NCP VS GovNet Connector 1.10 is no longer supported

The administration of the NCP VS GovNet Connector 1.10 is no longer supported from this version of the NCP Secure Enterprise Management Server.



### No differentiation between client plug-in and VS GovNet Connector plug-in in an administrator group.

In an administrator group, no distinction can be made between the plug-ins for the NCP Secure Enterprise Client and the VS GovNet Connector. Configured permissions apply to both "Client" and "Connector" in this case.

If the NCP Secure Enterprise Client and the VS GovNet Connector are used, it is recommended to create separate administrators in different administrator groups for the configuration of the respective plug-ins.

### The VS GovNet Connector Plug-in is currently not able to display the VS GovNet Connector's audit logs

### Error message "Function is not supported." after update to SEM 7.0

After updating SEM to version 7.0, when using a version 12.x server plug-in, the administrator receives the error message "Function is not supported" after selecting a version 12.x server template. This issue is resolved with the use of a version 13.x server plug-in.

### Dashboard: Page Not Found

When switching the view within the dashboard to "Time-Based OTP User Login", the error message "Page Not Found" appears if user management is disabled.

### Incorrect display of the user dashboard

When updating from an NCP SEM version 6.10, an incorrect display of the user dashboard can occur. To fix this problem, replace the "Content-Security-Policy" entry in the `admmgm.conf` file with the corresponding entry in the `admmgm.sam` file. Both files are located in the following directory:

C:\Program Files\NCP\ManagementServer\etc\nginx\admmgm.sam

Here is the entry of the `admmgm.sam` file to be copied:

```
add_header Content-Security-Policy "default-src 'self'; script-src 'self'
'unsafe-inline'; style-src 'self' 'unsafe-inline'; object-src 'none';
img-src 'self' www.w3.org/svg/ data: ";
```

### Possible privilege escalation when using scripts

If NCP or Python scripts are started via the SEM, they are executed with the same SEM privileges. It is therefore not recommended to allow user administrators to create or modify scripts. To increase security, the permissions of user administrators should be checked after an SEM update and the creation and modification of scripts should not be allowed. Existing scripts should be reviewed.

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

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

<https://www.ncp-e.com/en/products/centrally-managed-vpn-solution/management/>





NCP engineering GmbH  
Dombuehler Str. 2  
90449 Nuremberg  
Deutschland

+49 911 9968 0  
info@ncp-e.com  
[www.ncp-e.com](http://www.ncp-e.com)

NCP engineering, Inc.  
19321 US Highway 19 N, Suite 401  
Clearwater, FL 33764  
USA

+1 650 316 6273  
info@ncp-e.com  
[www.ncp-e.com](http://www.ncp-e.com)