NCP Secure Enterprise HA Server (Linux)
Release Notes

Service Release:	**10.01 r36481**
Date:	**August 2017**

Prerequisites

Linux Distributions:

The following Linux distributions are supported with this release:

- Suse Linux Enterprise Server 12 SP2
- CentOS 7.3
- Debian GNU/Linux 8.7
- Ubuntu Server 16.04.2 LTS

Prerequisites for Configuration via Secure Enterprise Management (SEM)

- Secure Enterprise Management Server: Version 3.02 or later
- Management Plugin - Server Configuration: Version 10.00 or later

Please note: From version 10.0, a license key for the same version of Secure Enterprise VPN Server and the Secure Enterprise HA Server is required to use these two products in combination.

1. New Features and Enhancements

None

2. Improvements / Problems Resolved

SNMP Queries were not working under Linux

If the NCP Secure Enterprise VPN Server was installed together with the NCP Secure Enterprise HA Server the SNMP query was broken. This issue has been resolved.

Warnings while Installation

In certain cases warnings concerning an unsupported platform were displayed while installing the software (although it was the current platform). This issue has been resolved.

3. Known Issues

None

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NCP Secure Enterprise HA Server (Linux)
Release Notes

Service Release: **10.01 r36161**
Date: **July 2017**

Prerequisites

Linux Distributions:

The following Linux distributions are supported with this release:

- Suse Linux Enterprise Server 12 SP2
- CentOS 7.3
- Debian GNU/Linux 8.7
- Ubuntu Server 16.04.2 LTS

Prerequisites for Configuration via Secure Enterprise Management (SEM)

- Secure Enterprise Management Server: Version 3.02 or later
- Management Plugin - Server Configuration: Version 10.00 or later

Please note: From version 10.0, a license key for the same version of Secure Enterprise VPN Server and the Secure Enterprise HA Server is required to use these two products in combination.

1. New Features and Enhancements

Resolved Communication Problems Between Backup and Primary System in VRRP Mode at Failsafe

- Stability improvements
- Improved monitoring in the event of Secure Enterprise VPN Server failure.

Configurable Number of Status Queries

The number of repeated status queries of the Secure Enterprise Server (SES) can be edited in the configuration file ncphasrv.conf.

2. Improvements / Problems Resolved

None

3. Known Issues

None

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Service Release: **10.0 r28591 (Linux 64)**
Date: **March 2016**

Prerequisites

Linux Distributions

This version is released only for 64 bit versions of the following distributions:

- SuSE Linux Enterprise Server 12
- CentOS 7.1
- Ubuntu Server 14.04.2
- Debian GNU/Linux 8.1.0

Prerequisites for Configuration by Secure Enterprise Management (SEM)

- Secure Enterprise Management server: Version 3.02 or later
- Management Plugin - Server Configuration: Version 10.00 r26953 or later

Please note: From version 10.0, a license key for the same version of Secure Enterprise VPN Server and the Secure Enterprise HA Server is required to use both products together.

To run this HA Server, you will need Secure Enterprise Server with version 10.0 r26968 or more.

1. New Features and Enhancements

Optimization of program has-rsuinit.

2. Improvements / Problems Resolved

None

3. Known Issues

None

NCP Secure Enterprise HA Server (Linux)
Release Notes

Service Release:	**10.0 r26952 (Linux 64)**
Date:	**December 2015**

Prerequisites

Linux Distributions

This version is released only for 64 bit versions of the following distributions:

- SuSE Linux Enterprise Server 12
- CentOS 7.1
- Ubuntu Server 14.04.2
- Debian GNU/Linux 8.1.0

Prerequisites for Configuration by Secure Enterprise Management (SEM)

- Secure Enterprise Management server: Version 3.02 or later
- Management Plugin - Server Configuration: Version 10.00 r26953 or later

Please note: From version 10.0, a license key for the same version of Secure Enterprise VPN Server and the Secure Enterprise HA Server is required to use both products together.

To run this HA server (10.0 r26952), you will need Secure Enterprise Server version 10.0 r26968.

1. New Features and Enhancements

None

2. Improvements / Problems Resolved

Number of domain groups

The error which occurred in the management services for a large number of domain groups has been fixed. This is resolved in the Server Configuration Plugin from version 10.00 r26953.

Acceptance of IPv6 addresses

IPv6 addresses were not always interpreted correctly. This issue has been resolved.

3. Known Issues

None

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Major Release: 10.0 r25085 (Linux 64)
Date: August2015

Prerequisites

Linux Distributions

This version is released only for 64 bit versions of the following distributions:

- SuSE Linux Enterprise Server 12
- CentOS 7.1
- Ubuntu Server 14.04.2
- Debian GNU/Linux 8.1.0

Prerequisites for management by Secure Enterprise Management

- Secure Enterprise Management server: Version 3.01 015 or later
- Management Plugin - Server Configuration: NCP_MgmPlugin_SrvCfg_Win32_811_051 or later

1. New Features and Enhancements

Modifications according to new functionalities of the NCP Secure Enterprise Server 10.0.

2. Improvements / Problems Resolved

None

3. Known Issues

None

4. Getting Help for the NCP Secure Enterprise HA Server

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

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5. Features

The NCP Secure Enterprise High Availability Services are reliable software components of the holistic NCP Enterprise solution. They can be configured to ensure either:

a) high availability of one or more NCP Secure Enterprise VPN Servers by means of a backup server, thereby ensuring the continuous availability of a company's entire virtual private network, or

b) equal distribution of load between multiple NCP Secure Enterprise VPN Servers (VPN gateways).

Functionality

The HA Server handles the automatic switchover between the VPN gateways of a HA system, dependent on either load or type of error. To ensure continuous availability, redundancy is configured into the system, with each component requiring its own official IP address. In a Failsafe configuration, each system is informed which has active and which has backup status. In a Load Balancing configuration, the system knows which server is loaded the least.

Operating Modes

Failsafe

- In Failsafe mode, only one VPN gateway is active. The second is installed as a backup system (hot standby backup), ready to take over in the event that the active gateway is stopped or fails.

Load Balancing

- Load Balancing (LB) mode is used to distribute the load from tunneled connections evenly over a number of active VPN gateways.

VRRP

- In addition to Failsafe and Load Balancing, NCP HA Servers also support VRRP operating mode. This mode is a component part of the HA license and is used when, in parallel to native VPN tunneled connections, the HA system must also support establishment of SSL VPN tunneled connections.

Central Management

NCP provides a web interface for configuring and administering the HA server, and configuration changes or enhancements can be carried out either locally or remotely. For more the complex configurations the Secure Enterprise Management Server Plug-in enables server configurations to be tailored centrally and then transferred to the corresponding members of an HA system.

Licensing Model

Next Generation Network Access Technology

Americas: NCP engineering, Inc. · 1045 Linda Vista Ave. Unit-A · Mountain View, CA 94043 · Phone: +1 (650) 316-6273 · www.ncp-e.com   **6 / 8**

Others: NCP engineering GmbH · Dombuehler Str. 2 · 90449 Nuremberg · Germany · Fon +49 911 9968-0 · Fax +49 911 9968-299

The HA license is always valid for the primary and the backup HA server in either FS or LB mode with the desired number of VPN tunnels. The software is fully licensed when the same serial number and the same license key is entered on both servers. After those license details have been entered, the operating mode can be changed.

Note: in Load Balancing mode the number of tunnel licenses for IPsec clients at the HA server must be equal to or greater than the sum of tunnel licenses entered at the VPN gateways making up the LB configuration. Tunnel reservation is not allowed in Load Balancing mode. The HA server autonomously calculates the number of tunnels that are to be allocated to the VPN gateway. In addition a second gateway license is required.

Should there be an alternative or additional requirement to manage a number of SSL VPN tunnel connections, the required number (Concurrent Users) must be licensed via an individual activation key entered via the web interface. Note that it is not possible to use an SSL VPN license for a native VPN connection.

Optionally additional IPsec or SSL VPN client tunnel licenses can be purchased in any quantity and at any time.

HA Server Prerequisites

Operating System

> **64 bit Operating System**

>> Linux Kernel 2.6 from 2.6.16
> **Linux Distributions**

>> see Prerequisites, page 1

CPU

- Intel x86 32 or 64 bit, dual core recommended

Main Memory

- min. 1 GB

Hard Drives

- up to 400 MB free space on the drive

Web Interface Web Browsers Supported

Use one of the newer versions of these web browsers:

- Internet Explorer
- Firefox or other Mozilla based browser

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- Safari
- Chrome

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