

GeNUCenter 2.0 Release Notes

Information on the GeNUCenter 2.0 product family is available in these release notes. Please read this document carefully! You are advised to install this upgrade, as this release both resolves various problems, and provides new features.

Please note:

We strongly recommend performing a configuration backup of your GeNUCenter system BEFORE upgrading.

Detailed instructions on how to perform this upgrade are available in section 5 of these release notes.

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1 Scope of Delivery

With the current GeNUCenter version 2.0 you have received:

- these release notes
- a bootable CD-ROM

2 New Features in GeNUCenter 2.0

2.1 Dynamic routing via IPsec VPN tunnels

GeNUCenter can configure appliances to be dynamically routed over fully meshed VPNs. The advantage is that in case of loss of a VPN connection between appliances the data stream can be redirected over other VPN connections.

For example, a VPN with 10 appliances will survive the loss of up to 36 connections without losing the data stream.

2.2 Local revisor configurable per appliance

Appliances now can be assigned Web GUI revisor accounts with read-only access to log data and the configuration.

2.3 GeNUCenter monitoring

GeNUCenter monitors its own status, including hard drive and swap usage, RAID usage (if installed) and fans. The current status is displayed in the GUI.

2.4 Modules manageable by GeNUCenter

Additional appliance software now can be installed and managed by GeNUCenter.

2.5 GeNUCenter forwards appliances e-mails

Appliances now can also send e-mail notifications via the managing GeNUCenter system. The mail is transmitted to GeNUCenter via an encrypted connection, and then forwarded by GeNUCenter to the mail server.

This is especially useful if the appliance is located in a network where direct sending of e-mails is not possible.

2.6 PKI command line interface

A command line program has been introduced to simplify the integration of GeNUScreen and GeNUCrypt appliances in existing PKI structures.

2.7 Operating system update

The operating system OpenBSD, on which the product is based, has been upgraded to version 4.4. A complete of changes caused by this version upgrade is available at

<http://www.openbsd.org/plus42.html>

<http://www.openbsd.org/plus43.html> and

<http://www.openbsd.org/plus44.html>

3 GeNUScreen and GeNUCrypt : New Features

The upgrade also affects the managed appliances.

3.1 GUI improvements

Major improvements have been made to the GUI, for example:

- Grouping of input fields that configure related functionality.
- Mutually exclusive input fields trigger visible deactivation of the fields not needed.
- If Javascript functionality is activated in the browser, the online help will be dynamically displayed without losing previous user input.

3.2 SSH VPN

Appliances now can establish VPN connections via the SSH protocol. This is especially usefully when connecting networks with overlapping address ranges, or when IPsec is not available.

3.3 IPv6 support

IPv6 support now is available for GeNUCenter, GeNUScreen and GeNUCrypt 2.0 .

- **Routing** IPv6 networks, routes and default gateways can be configured.
- **Filter rules** Firewall filter rules now also can be applied to IPv6 addresses and networks. To simplify configuration, IPv6 specific services and packet types have been predefined.
- **VPN** IPsec as well as SSH VPN (see above) can transport IPv4 and IPv6 through tunnels. Any combination is possible:
 - v4-in-v4 (as already available in earlier versions)
 - v6-in-v4 to form secure connections through an infrastructure that does not support IPv6.

- v4-in-v6
- v6-in-v6
- **This can activated/deactivated per appliance**, thus preventing the accidental tunneling of IPv6 in an exclusively IPv4 infrastructure.
- **IPv6 autoconfiguration** Appliances can use IPv6 autoconfiguration to supply internal networks with IPv6 addresses and default gateways.

3.4 Monitoring and alarms

Appliances continuously monitor themselves, as well as IPsec VPN connections and the reachability of other systems. Reaching a critical threshold can trigger messages per SNMP trap or e-mail.

In addition, the current state can be monitored per SNMP.

3.5 Mark interface as *encrypted only*

Interfaces can be easily configured to transmit encrypted traffic only, thus increasing data confidentiality.

3.6 Further changes

DHCP GUI Appliances now can act as DHCP servers for their subnet(s).

PKCS#12 Externally generated keys and certificates now can be configured on appliances. This simplifies integration with other products.

4 Manual

The product manual for this release is available on the CD-ROM. It can also be downloaded from the GeNUA homepage: https://www.genua.de/k/customer/gz_support/handbuch.html

5 Upgrade Installation

Before upgrading the GeNUCenter system, be sure to patch the system to version 1.1p5. Patches are available on the release CD-ROM and the GeNUA homepage: https://www.genua.de/k/customer/gz_support/patches.html.

Before starting the upgrade, please check if you have SSH access to the GeNUCenter system, and set it up if necessary.

If a GeNUCenter standby system has been configured, please check the product manual, chapter 4.

To upgrade, perform the following steps:

- Log in as `root` on the GeNUCenter machine.
- Generate the database backup by executing the following command:

```
$ db_backup
```

- Copy all files in the directory `/var/center/backup/` to a different machine.
- Insert the installation CD-ROM.
- The following question is displayed:

```
(I)nstall, (U)pgrade or (S)hell?
```

Select **U** for upgrade.

You then are prompted for the console password. Your entry here will overwrite the old password.

- The system now installs the upgrades.
- After installation, you are prompted to restart the system.
Remove the CD-ROM and enter the command

```
$ reboot
```

on the command line / at the console.

- Now log in at the Web interface and check the results. It is recommended to – at the very least – check the GeNUCenter configuration itself to prevent losing access to the Management Server due to errors.

6 How to Contact Us

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