

# GeNUCrypt 2.0 Release Notes

Information on the GeNUCrypt 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 resolves various problems, and provides new features.

## Please read:

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

Detailed instructions on how to perform this upgrade are available in section 3 of these release notes.

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## 1 New features in GeNUCrypt 2.0

### 1.1 Operating system update

The operating system OpenBSD, on which the product is based, has been upgraded to version 4.4. A complete list of changes 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>

### 1.2 GUI improvements

Major improvements have been made to the GeNUCryptGUI, 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, online help will be dynamically displayed without disrupting user input.

### 1.3 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.

### 1.4 IPv6 support

GeNUCrypt 2.0 now support IPv6.

- **Routing** IPv6 networks, routes and default gateways can be configured.
- **Filter rules** Firewall filter rules now also can be applied to IPv6 IP 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 be globally activated/deactivated**, 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.

## 1.5 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, current states can be monitored per SNMP.

## 1.6 Mark interface as *encrypted only*

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

## 1.7 Local revisor account

A GUI *revisor* account with read-only access to log data and the configuration now can be configured.

## 1.8 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.

# 2 Manual

The manual for this release is available on the CD-ROM, or per download from the GENUA homepage: [https://www.genua.de/k/customer/gc\\_support/handbuch.html](https://www.genua.de/k/customer/gc_support/handbuch.html)

# 3 Upgrade Installation

There are three different methods to obtain the upgrade patches:

## 3.0.1 CD-ROM

The patch file `C200_000.cpt` is available on the release CD-ROM.

### 3.0.2 Using the GUI

Navigate to SYSTEM → MAINTENANCE and select the action PATCHES VON GENUA HOLLEN. Download the file C200\_000.cpt.

### 3.0.3 From the GeNUA homepage

The upgrade can also be manually downloaded straight from the GeNUA homepage. All patches and upgrade file names conform to the format CNNN\_MMM.cpt. NNN designates the current release, MMM the patch number of this release.

To upgrade from release 1.0, patch 5 or release 1.1, patch 6 to release 2.0, do the following:

1. Enter the following URL in a browser:

```
https://www.genua.de/k/customer/gc_support/patches.html
```

2. In the Web form, enter your license key, the old version and patch level. Click on "Submit Query".
3. Download the file C200\_000.cpt.

## 3.1 Configuration backup

In the GeNUCrypt GUI, navigate to SYSTEM → MAINTENANCE and select the action EXPORT CONFIGURATION. Save the file.

## 3.2 Install patch

In the menu SYSTEM → MAINTENANCE select the action UPLOAD PATCH FROM FILE TO SYSTEM and specify the file C200\_000.cpt. The GUI will guide through the necessary steps.

## 3.3 Verify checksum

The software component checksums are available at [https://www.genua.de/k/customer/gc\\_support/checksums/index.html](https://www.genua.de/k/customer/gc_support/checksums/index.html) for verification.

## 4 How to Contact Us

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