

# GeNUCrypt 2.2 Release Notes

Information on the GeNUCrypt 2.2 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.

## Important, please read!

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

Detailed instructions on how to perform this upgrade are available in section 4 of these release notes.

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## 1 Scope of Delivery

With the current GeNUCrypt version 2.2 you have received:

- These release notes
- An ISO image of the installation CD-ROM.  
The image is also available for download on the GeNUA webserver in the GeNU-Center customer area:  
[https://www.genua.de/k/customer/gc\\_support/release\\_download.en.html](https://www.genua.de/k/customer/gc_support/release_download.en.html)

## 2 Before Upgrading

- If an IPsec VPN has a phase 2 SHA2 setting greater than 256, then VPN connections only are possible between GeNUA appliances running under the same software version. Thus, a VPN connection between GeNUCrypt version 2.1 and GeNUCrypt version 2.2 will fail.

## 3 New Features in GeNUCrypt 2.2

### 3.1 New Features

- **IPsec VPN throughput**  
IPsec VPN performance was significantly improved by optimizing the kernel and drivers. A GeNUCrypt 100C revision 4 system now reaches 50MBit/s throughput. Wirespeed is reached by GeNUCrypt 400 and 500s (revision 5 hardware) platforms.
- **Address translation for IPsec VPNs**  
IPsec VPN implementations can perform IP address translation. This assigns a so-called 'visible address' to the real internal address. The sending system performs the address translation, thus enabling third party appliances to initiate IPsec VPN connections to the 'visible address'.
- **Compatibility with new hardware**  
This release now supports the new hardware platforms GeNUCrypt 100C revision 4 and GeNUCrypt 100B revision 1.
- **Hostname transmission during logging**  
Appliances now can optionally transmit their hostnames during logging per syslog.

### 3.2 Bug Fixes

- **Improved logging**  
The performance of the extended logging was improved.

- **Improved stability of HA-Systems using IPsec VPNs** The stability of IPsec-VPNs during HA takeovers was improved.

## 4 Upgrade Installation

Any patchlevel of GeNUCrypt 2.1 can be upgraded to version 2.2.

### 4.1 Software

You can obtain the software for the upgrade in different ways:

- **Obtaining the file from the CD**

The release file `C220_000.cpt` is located in the root directory of the release CD.

- **Obtaining the file from the GeNUA website**

You can also download the release file manually from the GeNUA HTTPS server. All files are named using the scheme `CNNN.MMM.cpt`. `NNN` is the current release, `MMM` is the patch level for that release. Please perform the following steps to update release 2.1 patch 7 to release 2.2:

1. In a browser, go to  
`https://www.genua.de/k/customer/gc_support/release_download.en.html`  
Alternatively, go to `http://www.genua.de` and click on Customer Service -> Internal Customers Area -> GeNUCrypt Support -> Release Download
2. Enter your license key, the old version number and patch level. Confirm by clicking "Download"
3. Download the file `C220_000.cpt`

### 4.2 Backup the configuration

Choose SYSTEM → MAINTENANCE in the GeNUCrypt GUI. Click on EXPORT CONFIGURATION and save the listed file.

### 4.3 Apply the patch

Choose SYSTEM → MAINTENANCE in the GeNUCrypt GUI. Specify the file `C220_000.cpt` in the UPLOAD PATCH FROM FILE TO SYSTEM form field and press the upload button. The GUI will guide you through the rest of the process.

### 4.4 Checksum Verification

Checksums for verification can be found at

`https://www.genua.de/k/customer/gc_support/checksums/index.en.html`.

## 5 How to Contact Us

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