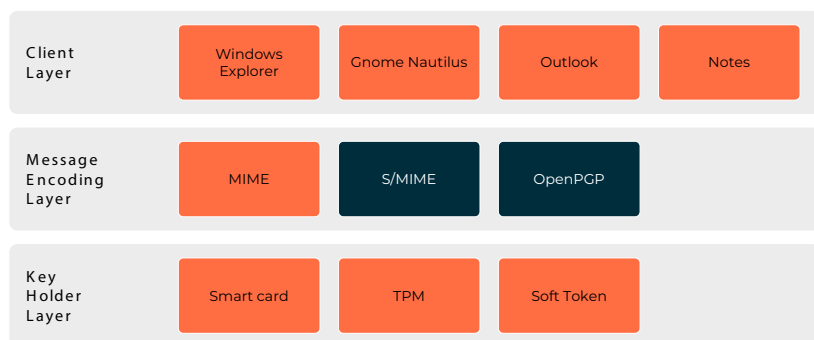# EVIDEN

cryptovision GreenShield

Encryption and digital signature with VS-NfD approval

Convenient, secure, approved: GreenShield software protects emails and files with modern cryptography. The German Federal Office for Information Security (BSI) has approved Green-Shield for classified information up to classification level VS-NfD.

User-friendly encryption

If you want to protect your data, you need to secure digital communications. This is especially true for public authorities and their industry partners, who are subject to the respective secrecy regulations. GreenShield from cryptovision offers user-friendly email as well as file encryption and is one of the few solutions of its kind to be approved for the VS-NfD, NATO-restricted and EU-restricted classification levels.

GreenShield can not only encrypt but also sign data. As an add-in for Microsoft Outlook (Windows), HCL Notes (Windows), Explorer (Windows) and Nautilus (Ubuntu), GreenShield integrates seamlessly into the user's email program or operating system. In addition to S/MIME, GreenShield also supports OpenPGP, making it an ideal solution to replace the Chiasmus encryption software, whose approval has expired.

Client Layer	Windows Explorer	Gnome Nautilus	Outlook	Notes
Message Encoding Layer	MIME	S/MIME	OpenPGP	
Key Holder Layer	Smart card	TPM	Soft Token	

Cryptovision GreenShield encrypts and signs data as an add-in for Outlook, Notes, Windows and Ubuntu. It supports both S/MIME and OpenPGP.

Approval for VS-NfD, NATO and EU

For the processing and transmission of classified information, it is mandatory to evaluate the software used for this purpose. In Germany, the Federal Office for Information Security (BSI) performs this approval in accordance with the Classified Information Directive (VSA). On an international level, the respective Security Accreditation Authority (SAA) and National Communications Security Authority (NCSA) are responsible for this task.

GreenShield is approved for VS-NfD, NATO-restricted and EU-restricted (BSI-VSA-10602, BSI-VSA-10632). A second evaluation also allows international use in the EU Council. GreenShield is listed in the NATO Information Assurance Products Catalogue (NIAPC) and on the EU List of Approved Cryptographic Products (LACP). GreenShield is available for purchase through the German Federal Department Store, Kaufhaus des Bundes (RV# 21230).

Why email and file encryption?

On its way from the sender to the recipient, an email can be read by numerous people, such as the sender's own administrators, IT staff or employees of the Internet provider. Companies and government agencies that send data by email must therefore protect themselves from uninvited readers.

Files can also fall into the wrong hands if they are sent as mail attachments or stored in the file system. Confidential data should only ever be stored on external media (e.g., a USB stick) with special security. Companies and public authorities are therefore well advised to protect their data in an appropriate manner.

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Six reasons for cryptovision GreenShield

Ease of use

Since cryptovision GreenShield integrates seamlessly into the existing environment, users will experience minimal changes in the way they work with email and files.

S/MIME and Open-PGP support

GreenShield supports both the S/MIME as well as the OpenPGP format. The user does not have to deal with the choice of the standard, as the software - suitable for the respective recipients - takes care of all the technical details.

Chiasmus replacement

For a long time, the file encryption program Chiasmus developed by the German information security agency BSI was used for the transmission of VS-NfD classified information. However, the VS-NfD approval of this software has expired. GreenShield is ideally suited to replace Chiasmus.

Approval

GreenShield is approved (BSI-VSA-10602, BSI-VSA-10632) for VS-NfD, NATO- and EU-restricted.

Notes support

GreenShield Mail is the only VS-NfD approved email encryption solution for HCL Notes on the market. The user can run GreenShield with Outlook and Notes on the same device, which allows for easy migration.

Additional features

Cryptovision GreenShield enables a comfortable key management, and it supports group mailboxes, proxy schemes, key recovery concepts, and other convenience applications.

Who uses cryptovision GreenShield?

Cryptovision (now part of Eviden) is a long-standing partner of the German armed forces (Bundeswehr). The company has been supplying the Bundeswehr with email security software for processing classified information up to the classification level "VS-Nur den Dienstgebrauch" (VS-NfD) since 2004.

The IT system house of the German Armed Forces, BWI, also opted for email encryption with GreenShield and is equipping over 160,000 users with this security software.

In addition to the proven cooperation, it was of great importance to the Bundeswehr that GreenShield supports HCL Notes as an email client - as the only email encryption solution approved by the German Federal Office for Information Security (BSI) on the German market.

Numerous other German authorities with a high need for protection, as well as companies that handle classified information, use GreenShield to protect emails and files at the highest security level with encryption and digital signatures.

Standards and technical specifications

Plattforms
- » Microsoft Windows 10/11
- » Ubuntu Linux 20.04 LTS
- » Microsoft Outlook 2016 / 2019 / 365
- » IBM Notes 9.1, HCL Notes 11

Formats
- » S/MIME version 3.2 / 4 including ECC
- » OpenPGP
- » PKCS#11
- » Random from smart card / PRG based on TR-02102 / jitter-based mechanisms
- » LDAP / OCSP / HTTP(S)

Find out more about us: www.cryptovision.com

Crypto algorithms
- » RSA, DSA/DH, ECC
- » DES*, Triple-DES*, RC2*, AES
- » SHA-1**, SHA-224*, SHA-256, SHA-384, SHA-512,
- » RIPEMD-128*, RIPEMD-160*, MD2*, MD4*, MD5*

* To ensure interoperability, used for decryption and verification only

 ** Disabled for usage with classified information

Approval
- » Classified - For Official Use Only (VS-NfD)
- » NATO Restricted
- » EU Restricted

Approval IDs: BSI-VSA-10602, BSI-VSA-10632

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