

# EVIDEN

## Eviden GreenShield

# Encryption and Digital Signatures with VS-NfD Approval

Convenient, secure, approved: GreenShield software protects emails and files using state-of-the-art cryptography. The German Federal Office for Information Security (BSI) has approved GreenShield for classified information up to the VS-NfD level.

## User-friendly encryption

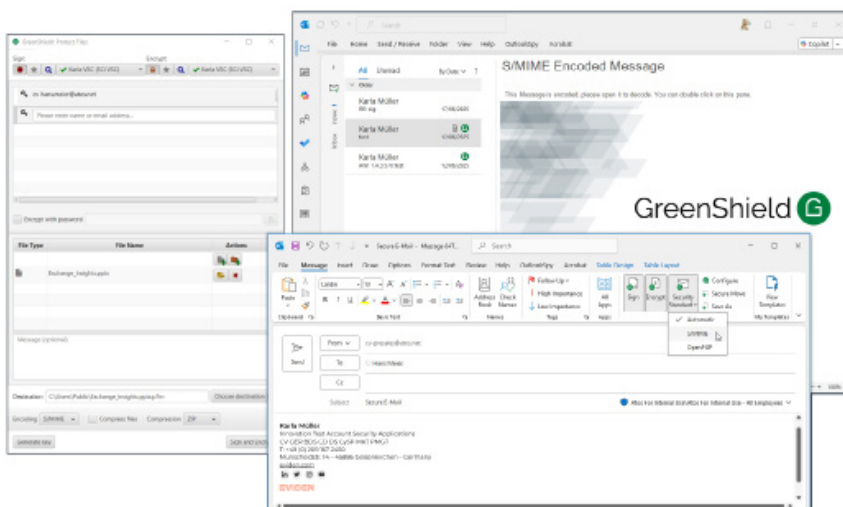
Anyone who wants to protect their data must secure their digital communications. This applies in particular to public authorities and their industry partners, who are subject to the relevant confidentiality regulations. GreenShield offers user-friendly email and file encryption and is one of the few solutions of its kind to be approved for the confidentiality levels VS-NfD, NATO-restricted, and EU-restricted.

GreenShield can not only encrypt data, but also sign it. 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 for exchanging data with a wide range of communication partners in an interoperable and secure manner.

## Approval for VS-NfD, NATO-restricted, EU-restricted

Software for processing classified information must be approved. In Germany, this is done by the Federal Office for Information Security (BSI) in accordance with the Classified Information Directive (VSA). Classified Information Directive (VSA). Internationally, the respective Security Accreditation Authority (SAA) and National Communications Security Authority (NCSA) are responsible.

GreenShield is approved for VS-NfD, NATO-restricted, and EU-restricted (BSI-VSA-10912). A second evaluation also allows its use in the EU Council. GreenShield is listed in the NATO Information Assurance Product Catalog (NIAPC) and on the EU List of Cryptographic Products (LACP). GreenShield is also available through the Federal Procurement Agency (KdB) (RV# 21230).



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

## Why email and file encryption?

An email can be read by numerous people on its way from the sender to the recipient, for example by your own administrators, IT staff, or employees of your Internet provider. Companies and authorities that send data by email must therefore protect themselves against unauthorized readers.

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

## Six reasons for GreenShield



### Usability

Since GreenShield integrates seamlessly into the work environment, users only have to adjust to minimal changes in how they work with emails and files.



### S/MIME and OpenPGP

GreenShield supports both the S/MIME and OpenPGP formats. Users do not need to worry about choosing a standard, as the software takes care of all the technical details to suit the recipient.



### Accessibility

GreenShield is classified as “accessible” in terms of barrier-free access. This means that GreenShield can also easily be operated by people with visual impairments, hearing impairments, or motor impairments.



### Approval

GreenShield is approved for processing data classified as VS-NfD, NATO Restricted, and EU Restricted.



### Additional features

GreenShield offers convenient key management and supports group mailboxes, proxy rules, and message recovery concepts.



### Sovereignty through Notes support

GreenShield Mail is the only VS-NfD-approved email encryption solution for HCL Notes. Notes and Outlook can be run on the same device, enabling seamless migration. Unlike Microsoft Exchange, HCL Domino mail servers can also be operated on-premises in the long term, ensuring control over your own data. GreenShield supports OpenPGP with the decentralized “Web of Trust” trust model, which does not require an external authority. This allows Notes to be operated completely independently of third parties in combination with GreenShield.

## Who uses GreenShield?

Eviden Digital Identity (formerly cryptovision) is a long-standing partner of the German Armed Forces. Since 2004, the company has been supplying the German Armed Forces with email security software for processing classified information up to the “VS-Nur für den Dienstgebrauch” (VS-NfD) security level. The German Armed Forces’ IT system house, BWI, has also opted for GreenShield email encryption and is currently equipping over 160,000 communication participants with this security software.

In addition to the proven cooperation, it was of great importance to the German Armed Forces that GreenShield supports HCL Notes as an email client—the only email encryption solution on the German market approved by the Federal Office for Information Security (BSI). Numerous other German authorities and companies subject to confidentiality requirements use GreenShield to protect emails and files at the highest security level with encryption and digital signatures. Numerous other German authorities and companies subject to confidentiality requirements use GreenShield to protect emails and files at the highest security level with encryption and digital signatures.

# Standards and technical specifications

### Platforms

- » Microsoft Windows 11
- » Ubuntu Linux 20.04 LTS
- » Microsoft Outlook 2021 / 2024 / 365
- » HCL Notes 11/12/14

### Formats

- » S/MIME Version 3.2 / 4 including ECC
- » OpenPGP
- » PKCS#11
- » LDAP / OCSP / HTTP(S)

### Crypto algorithms

- » RSA, DSA/DH, ECC, PQC-Preview: ML-DSA and ML-KEM\*
- » DES\*\*, Triple-DES\*, RC2\*\*, AES
- » SHA-1\*, SHA-224\*\*, SHA-256, SHA-384, SHA-512,
- » RIPEMD-128\*\*, RIPEMD-160\*\*, MD2\*\*, MD4\*\*, MD5\*\*

### Approval

- » Verschlusssache – Nur für den Dienstgebrauch (VS-NfD)
- » NATO Restricted
- » EU Restricted

Approval number: BSI-VSA-10912

\* Prevented with VS-NfD

\*\* For interoperability reasons, only for decryption and verification purposes

Compact accessibility assessment

GreenShield Suite version 1.4.0.508



Accessible

| User Group                                                                          | Accessibility  |
|-------------------------------------------------------------------------------------|----------------|
|  | good           |
|  | very good      |
|  | very good      |
|  | very good      |
|  | not considered |

As of 23.07.2024

More information: [www.eviden.com](http://www.eviden.com)

### Social Media



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