

# genusecure Suite

## Mobile Work

## Facts and Features

### Definition

genusecure Suite safeguards connections, applications, and data of mobile devices running Windows 11. It is designed for any organization that requires the classification levels German VS-NfD, NATO RESTRICTED, and RESTREINT UE/EU RESTRICTED. The security solution comprises a VPN software client, a hard drive encryption as well as a smart card middleware and meets all requirements of the German Federal Office for Information Security (BSI) for secure teleworking while providing the performance of advanced IT tools for effortless collaboration.

### Components of genusecure Suite<sup>1</sup>

- VPN Software Client genuconnect
- Full-Drive Encryption Utimaco DiskEncrypt
- Smart Card Middleware Nexus Personal Desktop Client

### Typical Use

- VS-NfD-compliant processing of classified information in government agencies or in industries with an obligation to maintain secrecy
- Enabling secure, scalable, and flexible workplaces in home offices or at multiple locations<sup>2</sup>
- Highly secure mobile working with laptops and tablets running Microsoft Windows

<sup>1</sup> Customers receive one-stop service and support directly from the provider genua GmbH.

<sup>2</sup> Project-specific assurance of hardware support

genua.



### Reasons to choose genusecure Suite

- All-in-one security for organizations with German VS-NfD requirements
- Approved by the BSI: The VPN software client and the full-drive encryption meet the highest security requirements and are approved by the BSI
- Simple and convenient: Users work via the familiar Windows interface without any additional layers
- Seamless integration into public key infrastructures (PKI) through a fully PKI-compatible platform

### Service

- Customer service directly from the manufacturer
- Hotline service/update service
- Comprehensive training courses

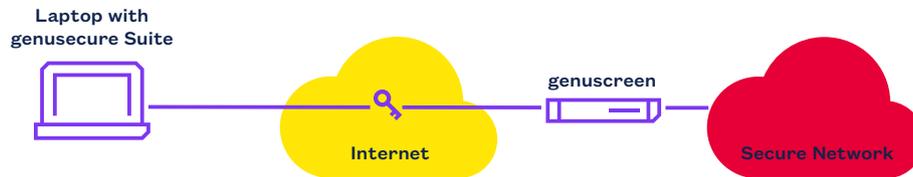
SecurITy  
made  
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Germany

System Requirements	
Hardware	Processor: Intel: at least Intel 3rd generation core (Ivy Bridge or better, as of 2014); AMD: at least AMD Zen Architecture (Ryzen, as of Feb. 2017); free disk space on UEFI partition (≥ 200 MB); free disk space on Windows partition (≥ 600 MB)
Supported OS	genusecure Suite 2.0: Windows Professional or Enterprise 11 24H2 or 24H4 genusecure Suite 2.1: Windows Professional or Enterprise 11 24H2 LTSC or 25H2
Smart card	CardOS 5.3; ≥ 1 card per endpoint (≥ 2 certificates per card)
PKI	BSI-certified (ECOS TMA or genustrust/D-Trust)
Encryption algorithm	AES-XTS (DiskEncrypt)
VPN protocol	IKEv2/IPsec-ESP, UDP 4500
Default UDP port	4500
Certificate key size	RSA 4096 bits (both user and CA certificates)
Device-health forwarding	Optional; enabled via a single registry flag
Trusted-Network Detection	Optional; enabled via a single registry flag
Automatic authentication	Optional; enabled via a single registry flag
HA capability	Active-active genusecure clusters (load balancing)
Monitoring	Prometheus & Zabbix exporters; Windows Event Log (Ids 1000-1002)
Installation package	Signed MSI (SHA-256 checksum provided on the customer portal)
Maximum DHCP-offered gateways	4 IPv4 addresses (used by genuconnect)
Maximum number of profiles (genuconnect)	Unlimited – user-selectable
Maximum CPB start-page size	2 MiB

## Excellence in Digital Security.

Bundle Features	
Compliance	German VS-NfD (approved-operation) ready, VPN and disk encryption components are BSI-approved and can be used in classified "Verschlusssache – Nur für den Dienstgebrauch" environments when a BSI-certified PKI is in place
Smart-card centric	Single card stores $\geq 2$ certificates, one certificate is used for data-at-rest encryption (DiskEncrypt) and another for network authentication (genuconnect)
PKI compatability	ECOS TMA/genustrust (D-Trust), both solutions provide a BSI-approved PKI capable of issuing 4096-bit RSA certificates with the required key-usages (dataEncipherment, keyEncipherment)
Zero trust/micro perimeter	Fine-grained access rules in genuconnect, controls based on user, group, OS, browser, IP range, country, time window, etc.; enforced by genuscreen appliances (which have to be procured separately)
Device health & quarantine	Integrated with genuconnect: Windows Security Center health data can be forwarded to the VPN gateway to automatically place non-compliant endpoints into a quarantine zone
Central management	DiskEncrypt Management Center and genuscreen: Policies for full-disk encryption and VPN/TND are defined centrally and pushed to endpoints via standard deployment tools (e.g., MECM/SCCM)
High availability	Active-active genuscreen clusters as VPN gateways and encryption services can be load-balanced and fail-over without user impact
Monitoring & auditing	Prometheus/Zabbix exporters and Windows Event Log for real-time health, performance, and connection metrics; event IDs 1000-1002 for VPN/TND status changes
Deployment	MSI packages (signed, SHA-256 verified) delivered as MSI installers; can be deployed silently with administrator rights
Supported hardware	Smart-card reader and TPM-enabled endpoint (recommended) required for secure private-key storage and entropy generation

## Use Case



### Convenient and Needs-Based Provision of Mobile, German VS-NfD-Compliant Workplaces

With genusecure Suite, organizations with high-security requirements can easily implement VS-NfD-compliant mobile working – without compromising usability and flexibility. Using the comprehensive security solution and a smart card, employees

connect to their organization's secure network via a Virtual Private Network (VPN) and are allowed to process classified information. Thanks to the approved full-drive encryption of genusecure Suite, all data stored on the device is securely protected at all times.

### Further Information:

[www.genua.eu/genusecure-suite](http://www.genua.eu/genusecure-suite)

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