



Securing Critical Infrastructure & Implementing NIS2

Risk Management Measures in Line with State of the Art Requirements

SecurITy
made in EU

SecurITy
made in Germany

NIS2 Imposes High Security Requirements on Affected Organizations

In the context of the implementation of the NIS2 Directive, the German Federal Office for Information Security (BSI) requires risk management measures in line with the state of the art (“Stand der Technik”) in critical and highly critical facilities. These measures can be supported by the use of suitable IT security products.

If IT security products are used, they must also be in line with the State of the Art. The BSI will describe and publish the state of the art regarding security requirements for IT products, taking into account existing standards and norms.¹

If IT security products have BSI approval and/or BSI certification, or if they follow key BSI recommendations, it can be assumed at this time that they meet the security requirements in accordance with the state of the art.

IT Security for Critical and Highly Critical Infrastructure

genua products used in sensitive infrastructure are regularly approved, certified, or aligned with BSI requirement profiles or recommendations. The technical requirements of German “IT-Grundschutz” are already implemented by the manufacturer.²

Their use ensures an appropriate level of protection for operators of critical and highly critical facilities and supports providing evidence that risk management measures have been implemented in accordance with the state of the art.

Our IT Security Solutions and Expert Know-How Offer these Advantages:

- Our solutions meet the requirements for critical and highly critical infrastructure as defined by the BSI Act, IT-Grundschutz, and the NIS2 Directive
- Regular certification and approval of essential IT security solutions by the German Federal Office for Information Security (BSI)
- Certification according to the international standard IEC 62443-4-1 for industrial security demonstrates the implementation and execution of a security-oriented product development lifecycle, from conception through development to support
- Expert consulting services on IT-Grundschutz, risk management measures, and the use of IT security products in the context of NIS2 implementation
- Technical support throughout all phases of planning, implementation and operation
- Consistent quality and information security management in accordance with ISO 9001 and ISO 27001 to ensure consistently high product and service quality
- Service and support directly from the manufacturer and specialized partners

¹ State of the Art

https://www.bsi.bund.de/EN/Themen/Unternehmen-und-Organisationen/Standards-und-Zertifizierung/Grundschutz-in-der-Informationssicherheit/Stand-der-Technik/stand-der-technik_node.html

² IT-Grundschutz Compendium – Tool for Information Security

https://www.bsi.bund.de/EN/Themen/Unternehmen-und-Organisationen/Standards-und-Zertifizierung/IT-Grundschutz/it-grundschutz_node.html

State of the Art IT Security Products

Whether it is network security, secure e-mail communication, data encryption, cybersecurity for systems in production environments, or zero-trust application access: With a solution portfolio designed to protect security-critical organizational areas in the energy, water, and transportation sectors, genua makes a significant contribution to the successful implementation of the NIS2 Directive.

Product from genua	Meets the “state of the art” due to
Remote Maintenance Solution genubox	<ul style="list-style-type: none"> ✓ Based on the Firewall & VPN Appliance genuscreen with BSI approval and BSI certification ✓ Meets the BSI requirements for “Secure Remote Maintenance in Industrial Environments” (BSI-CS 108 Version 2.0) ✓ Based on a “security-by-design” development approach
Data Diode cyber-diode	<ul style="list-style-type: none"> ✓ Based on the Data Diode vs-diode with BSI approval ✓ Aligned with the BSI’s “VS Requirement Profile for Data Diodes” ✓ Based on a “security-by-design” development approach
IDS & IPS cognitix Threat Defender	<ul style="list-style-type: none"> ✓ Monitors internal network traffic for attacks and security incidents ✓ Supports the implementation of security measures in accordance with the BSI’s guidance on the use of intrusion detection systems (SzA)
High Resistance Firewall genugate and genugate Virtual	<ul style="list-style-type: none"> ✓ Approval for VS-NfD, NATO RESTRICTED, and RESTREINT UE/EU RESTRICTED (genugate) ✓ Approved for VS-NfD (genugate Virtual) ✓ Certified according to Common Criteria (CC) EAL4+ with AVA_VAN.5
Firewall & VPN-Appliance genuscreen and genuscreen Virtual	<ul style="list-style-type: none"> ✓ Approval for VS-NfD, NATO RESTRICTED, and RESTREINT UE/EU RESTRICTED ✓ Certified according to Common Criteria (CC) EAL4+ with AVA_VAN.4
VPN Software Client genuconnect Enterprise	<ul style="list-style-type: none"> ✓ Based on the VPN Software Client genuconnect with BSI approval ✓ Based on a “security-by-design” development approach
Industrial Firewall genuwall	<ul style="list-style-type: none"> ✓ Based on the firewall component of the Firewall & VPN Appliance genuscreen with BSI approval and BSI certification ✓ Aligned with the BSI’s “VS Firewall Requirements Profile” ✓ Based on a “security-by-design” development approach
Zero Trust Application Access genusphere	<ul style="list-style-type: none"> ✓ Zero-trust principle for complete control over application security ✓ Provides seamless traceability through audit-proof logging ✓ Based on a “security-by-design” development approach

Securing what connects us.

Further Informations:

genua.eu/securing-what-connects-us



Interested? Contact us:

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About genua

With its IT security solutions developed and produced in Germany, genua GmbH is a pioneering force in digital sovereignty. Government agencies, organizations subject to secrecy protection, and operators of critical infrastructure rely on genua to protect their critical and highly sensitive digital infrastructure.

genua's portfolio includes highly secure, backdoor-free, and scalable IT security products such as firewalls, gateways, quantum-resilient VPNs, remote maintenance systems, and complete solutions for mobile working with approval for processing classified information. Many products are also available as virtualised versions for flexible cloud integration. Regular certifications and approvals by the German Federal Office for Information Security (BSI) attest to the high level of security and quality.

With around 500 employees, genua GmbH is part of the Bundesdruckerei Group. The company is classified as a 'qualified manufacturer' by the BSI and its products are listed on the central purchasing platform for German federal authorities (Kaufhaus des Bundes). Its customers include BMW, the German Armed Forces, the THW, and the Würth Group.



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