Rohde & Schwarz Cybersecurity

PRODUCT OVERVIEW

ROHDE & SCHWARZ

Make ideas real

Your trustworthy IT security specialist

ROHDE & SCHWARZ CYBERSECURITY

We provide protection against the constant changing cyber threats to governmental and commercial customers with special IT security needs and approval requirements.

As a pioneer of highly secure encryption technologies we deliver high-speed network encryption and zero-trust based endpoint security. Most of our products are approved for securing classified data by the German Federal Office for Information Security. These trusted security solutions support users along their way into a secure and digitalized world and thus make a significant contribution to digital sovereignty.

We are a subsidiary of the technology group Rohde & Schwarz, a leading supplier of solutions in test & measurement, technology systems and networks & cybersecurity.

Rohde & Schwarz Cybersecurity

NETWORK ENCRYPTORS

High-speed network encryption on Layer 2 and Layer 3

With over 30 years of crypto expertise, Rohde & Schwarz Cybersecurity is one of the pioneers in the field of network encryption with its network encryption hardware and software. The entire value chain is under control of the company, guaranteeing highest levels of trust and reliability.

Our network encryptors protect public and commercial customers from espionage and manipulation of data transmitted via Ethernet over fixed lines, radio links or satellite. The products meet the diverse requirements of customers, who can rely on specially developed, customized solutions.

Advantages of our network encryptors

- ► "Security Made in Germany" – over 30 years of crypto competence
- ► Custom hardware and software for market-leading encryption performance
- ► State-of-the-art cryptographic methods and standards
- ► High level of user-friendliness thanks to a central security management system
- ► Approved by the German Federal Office for Information Security: VS-NfD (RESTRICTED), EU & NATO RESTRICTED

R&S®SITLINE ETH

R&S®SITLine ETH is a family of Ethernet encryptors. It protects government agencies and companies from espionage and manipulation of data transmitted via Ethernet over fixed lines, radio links or satellite. The encryption solutions were specifically designed for exchanging huge amounts of encrypted data in real-time, speeds range from 10 Mbit/s to 40 Gbit/s.

With the help of R&S®SITLine ETH, you can protect Ethernet connections of your organization or corporate network at a high level against tampering and read-along. Strict orientation to network standards makes it easy to integrate existing IT networks while preserving network functions and performance features.

R&S®SITLine ETH secured networks offer highly efficient and effective professional transmission security. Combined with advanced carrier Ethernet services and product durability, the total cost of ownership (TCO) of a secured network is minimized.

R&S®SITLine ETH is approved by the German Federal Office for Information Security up to classification level VS-NfD (RESTRICTED), RESTREINT UE / EU RESTRICTED and NATO RESTRICTED.

Available models:
– R&S®SITLine ETH-L
– R&S®SITLine ETH-S
– R&S®SITLine ETH40G
– R&S®SITLine ETH4G
– R&S®SITLine ETH50

R&S®TRUSTED VPN

R&S®Trusted VPN has been developed with two basic goals in mind: hard-edged security and foolproof administration.

R&S®Trusted VPN integrates modern security standards in their most stringent form as a default strategy and provides the optimal hardware platform. The operating concept focuses on the higher level of logical traffic relationships between networks and users.

An individual administration of every single device involved is thus eliminated.

R&S®Trusted VPN is approved by the German Federal Office for Information Security up to classification level VS-NfD (RESTRICTED), RESTREINT UE / EU RESTRICTED and NATO RESTRICTED.

Available models:
– R&S®Trusted VPN-XL
– R&S®Trusted VPN-L
– R&S®Trusted VPN-S

Rohde & Schwarz Cybersecurity

ENDPOINT SECURITY

Security for your laptops and PCs via highly secure browser, zero-trust based VPN Client and proven full-disk encryption

We offer public institutions and corporations high-security products that proactively prevent cyberattacks and the introduction of malicious code and malware onto endpoints.

R&S®Trusted VPN Client protects the network communication of Windows clients with government or corporate networks via untrusted connections. The unique Zero-Trust-to-Windows approach ensures security and trust independent from the operating system.

The proven full-disk encryption R&S®Trusted Disk protects sensitive data from unauthorized access with secure and transparent encryption in real time without limiting productivity – even on USB flash drives.

The fully virtualized R&S®Browser in the Box surfing environment offers an innovative, multi-level concept for secure and convenient Internet surfing and proactively protects against malware.

Our central management tool for smart card-based public key infrastructures, R&S®Trusted Identity Manager, makes it easy to create and manage certificates and smart cards.

R&S®Trusted Endpoint Suite is a secure classified workstation for remote devices at VS-NfD/RESTRICTED level. It combines VPN Client and full-disk encryption – and allows remote users to easily connect to companies holding classified information.

R&S®TRUSTED VPN CLIENT

R&S®Trusted VPN Client protects the internal network communication between client platform and VPN gateway. Mobile devices can securely connect to the company or an organization's Intranet, even when data traffic is routed over the Internet.

The innovative architecture of R&S®Trusted VPN Client enables a purely software-based security solution while maintaining the high security level of a VS-NfD/RESTRICTED VPN Client.

The secured access authorization is granted by several, mutually independent authentication mechanisms, such as PIN and smart card. End users use the Microsoft® Windows platform, administrators manage the software package as usual on the existing system.

R&S®Trusted VPN Client is approved by the German Federal Office for Information Security up to classification level VS-NfD (RESTRICTED), RESTREINT UE / EU RESTRICTED and NATO RESTRICTED.

R&S®TRUSTED DISK

R&S®Trusted Disk – approved for securing classified data – provides effective full-disk encryption to prevent access to sensitive data in the event of theft or loss. R&S®Trusted Disk encrypts not only data, but the complete operating system and even temporary files.

R&S®Trusted Disk uses a transparent real-time encryption method to maintain unimpaired workstation productivity and offers a central management for R&S®Trusted Disk clients, user groups and roles. This makes it possible to manage the encryption status and rights assignments of all R&S®Trusted Disk clients.

R&S®Trusted Disk even protects the access to encrypted portable data storage devices such as USB flash drives and external hard disks.

R&S®Trusted Disk is approved by the German Federal Office for Information Security up to classification level VS-NfD (RESTRICTED), RESTREINT UE / EU RESTRICTED and NATO RESTRICTED.

Endpoint security

R&S®BROWSER IN THE BOX

R&S®Browser in the Box, our virtual environment for secure Internet surfing, proactively protects against Internet attacks like viruses, Trojans as well as other malware, advanced persistent threats and zero-day exploits.

The Windows operating system and the browser are fully separated from each other. There is complete isolation at the computer level, keeping malware away from the rest of the user's PC.

In addition, at the network level access to the internet is separated from the intranet, so the internal corporate network (intranet) is fully separated from the internet. This provides comprehensive multilevel workstation security.

Networks are consistently separated, and setting up an unknown and possibly hazardous internet connection for downloading malware is prevented. Isolation of the intranet prevents malware from penetrating into the internal network, even in the event of an attack. At the same time, malware cannot establish a connection to the internet to download the actual harmful code or to extract sensitive company data.

By proactively separating the internet from the intranet, productive access to the internet remains unrestricted, while malware threats from emails and downloads are excluded from internet access and therefore deprived of their ability to attack.

R&S®TRUSTED IDENTITY MANAGER

R&S®Trusted Identity Manager allows a centralized and intuitive key and identity management for your endpoint users. While personalizing user smart cards you can flexibly choose profiles fitting your needs.

This includes the profiles:
– S/MIME and PGP for email and file encryption
– IPsec (RSA and ECC) for secure remote access (SRA)
– Windows logon
– User identification for R&S®Trusted Disk

Users can self-service in terms of changing smart card PINs, unlocking smart card using PUK directly or updating the smart cards on their workstation. This is a significant relieve for your IT service desk as this covers most of the common service requests.

Our solution can be operated as integrated PKI or you can attach it to your organizations' PKI. This offers you the maximum flexibility needed when key management is often rigid.

R&S®TRUSTED ENDPOINT SUITE

R&S®Trusted Endpoint Suite is a software-based security system for Microsoft® Windows endpoint devices. The secure classified workstation, approved by the German Federal Office for Information Security (BSI) for the classification level VS-NfD/RESTRICTED, allows the storage and processing of classified information.

The system consists of R&S®Trusted VPN Client and the full-disk encryption R&S®Trusted Disk. Additional protection is optionally provided by the highly secure browser R&S®Browser in the Box.

As a combined IT security solution for remote devices at VS-NfD/RESTRICTED level, R&S®Trusted Endpoint Suite ensures optimally protected endpoints and networks – and allows remote users to easily connect to companies holding classified information.

The solution also features intuitive and high usability, easy administration as well as flexible hardware selection.

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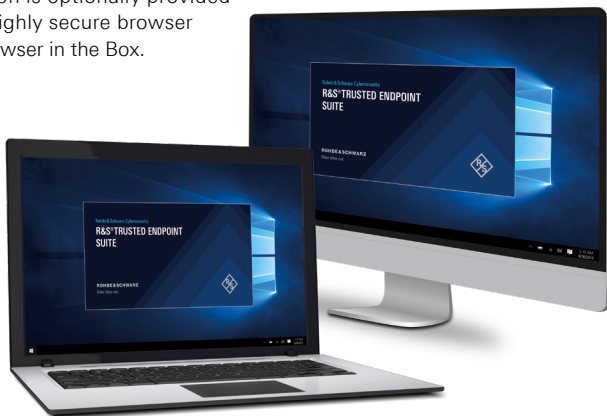
MANAGEMENT SYSTEMS

Central security management with intuitive operation

Security management systems make it easier for public authorities and companies to manage products and certificates. Rohde & Schwarz Cybersecurity offers security management systems tailored to specific solutions and customer requirements that meet the highest security standards.

All of them impress with intuitive operation based on user processes, central administration and simple installation. Your IT administration connects via a secure web interface to manage the entire operating lifecycle of the products on your locally distributed endpoints. You can also optionally benefit from the integrated PKI, which you can operate under your own control, without third parties.

Management systems
▶ R&S®Trusted Objects Manager NE
▶ R&S®Trusted Objects Manager
▶ R&S®SITScope

R&S®TRUSTED OBJECTS MANAGER NE

With R&S®Trusted Objects Manager NE, you can centrally control your next generation Layer 2 network encryption product portfolio in an easy-to-use and intuitive manner. The focus is on simple, intuitive operation based on network-specific application scenarios. In addition, the modern REST API enables easy integration into higher-level monitoring and log systems.
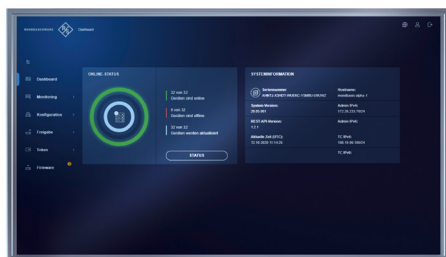
R&S®TRUSTED OBJECTS MANAGER

With R&S®Trusted Objects Manager, you can centrally control your entire endpoint security product portfolio and in addition your Layer 3 network encryption product portfolio in an easy-to-use and intuitive manner. Your IT administration connects via a secure web interface in order to manage the entire operational life-cycle of the products on your locally distributed endpoints. You can also benefit from the integrated PKI, which you can operate under your own sovereignty, without third parties.

R&S®SITSCOPE

With R&S®SITScope, you can centrally control and manage your Layer 2 network encryption product portfolio in an easy-to-use and intuitive manner. R&S®SITScope is available as a software package and can be installed on appropriate servers. A server appliance with an integrated card reader is also offered. In the client-server architecture, operation takes place via a remote Windows client installation.
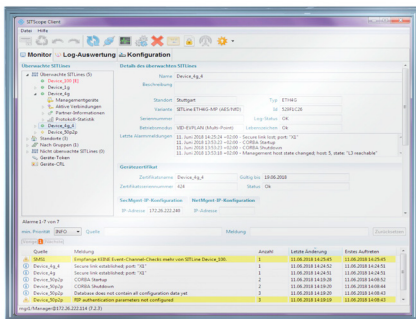
Service that adds value

► Worldwide
► Local and personalized
► Customized and flexible
► Uncompromising quality
► Long-term dependability