Rohde & Schwarz
Cybersecurity
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Rohde & Schwarz Cybersecurity

Rohde & Schwarz Cybersecurity protects companies and public institutions around the world against espionage and cyberattacks. With highly secure encryption solutions, next-generation firewalls and software for network analysis and endpoint security, the company develops and produces technologically advanced solutions for information and network security.

The award-winning, "made in Germany" IT security solutions range from compact, all-in-one products to customized solutions for critical infrastructures.

Rohde & Schwarz has been active in IT security for over 20 years and is working to expand this business field. The activities of the company's subsidiaries gateprotect, ipoque, Sirrix and Rohde & Schwarz SIT are now concentrated under the umbrella brand Rohde & Schwarz Cybersecurity. The result is a leading supplier for cybersecurity in Europe that combines the infrastructure and expertise of an established high-tech company with the innovative strength of a startup.

We develop our trusted IT solutions around our "Security by Design" concept, which proactively protects against cyberattacks instead of reactively responding to attacks. This new approach even protects against complex attacks – such as zero-day exploits – that are beyond the capabilities of reactive tools such as antivirus software or traditional firewalls.
Secure networks

Our comprehensive unified threat management solutions for medium-sized enterprises, the next-generation firewalls for the ultra-high security requirements of large corporations and our R&S®SITLine ETH Ethernet encryptor protect companies and government authorities against espionage and the manipulation of data transported over landline, radio relay and satellite links. TrustedVPN provides a comprehensive, state-of-the-art security infrastructure as a fully automatic, turnkey solution.

Network security products:
- gateprotect UTM+ firewalls
- gateprotect NP+ next-generation firewall
- R&S®SITLine ETH Ethernet encryptor
- TrustedVPN
The UTM+ firewalls from Rohde & Schwarz Cybersecurity were the first to offer next-generation firewall features. The single-pass engine integrated into UTM solutions ensures high-performance analysis of network traffic. Port-independent, realtime SSL interception makes it possible to analyze encrypted data traffic in addition. UTM+ firewalls offer spam, virus and malware protection that is ready for the future. With security functions such as single sign-on, IPSec/SSL, IDS/IPS, web filters and virus filters, all areas of an enterprise can easily and effectively be protected against network attacks. Home offices, branch offices and mobile devices can also connect securely to the network. And thanks to WebGUI technology, corporate and government structures can be easily and intuitively managed from a browser on any device.
gateprotect NP+ next-generation firewall

The gateprotect Network Protector+ (NP+) next-generation firewall series from Rohde & Schwarz Cybersecurity offers innovative, high-performance network security solutions made in Germany with an intuitive user interface for enterprise environments.

Through complete, application-based positive validation of the entire network traffic, the NP+ series provides maximum network security – even against zero-day attacks. The single-pass engine, developed in Germany, relies on a signature database for hundreds of applications, thousands of threats and millions of web addresses, all without compromising firewall throughput.

Efficient bandwidth control with traffic shaping ensures that prioritized applications receive the resources they need for optimal operation. With Traffic Capture, data packets can be captured for later analysis, proactively preventing future network problems.
R&S®SITLine ETH is a family of Ethernet encryptors. The devices in this family protect companies and government authorities against espionage and the manipulation of data transported via Ethernet over landline, radio relay and satellite links.

The R&S®SITLine ETH devices were designed specifically for exchanging huge amounts of encrypted data in real-time. Encryption takes place in the OSI model’s data link layer (layer 2), which requires significantly less bandwidth as compared to IP encryption – especially for VoIP and small-scale IoT protocols.

This new encryptor class is ideal especially for data center operators and users, for use in backbone networks and for interconnecting sites within an enterprise. As data volumes rise, a flexible licensing model allows an increase in encryption throughput to max. 40 Gbit/s per encryptor – without any hardware upgrades.

R&S®SITLine ETH encryptors have been approved by the German Federal Office for Information Security (BSI) for handling data classified as RESTRICTED and NATO RESTRICTED.
TrustedVPN provides a comprehensive, state-of-the-art security infrastructure for corporate networks. The solution is composed of three main components: The TrustedObjects Manager is the central server for management, configuration and provisioning. Any of several models of the TrustedVPN Appliance are decentrally positioned as VPN gateways at the individual sites. Mobile users dial into the network via the TrustedVPN software client. VPN appliances are designed as completely closed systems that can only be administered remotely.
Communications confidentiality is endangered by illegal eavesdropping. The technical effort required for eavesdropping is steadily decreasing with the rise of Voice over IP (VoIP) and mobile networks. Our tap-proof communications offerings provide end-to-end encryption of data transmissions and voice calls as well as effective protection against eavesdropping along the transmission path.

Tap-proof communications products:
- CryptoGateway
- SecureGateway
- TopSec Mobile
- ELCRODAT
- RadioCrypt
- HandsetCrypt
- R&S®MMC3000
- R&S®FT5066 Trusted Filter
- Digital Line Interfaces
CryptoGateway

CryptoGateway combines secure mobile communications with existing VoIP or ISDN fixed network devices within a company. Calls are switched between secured mobile phones and any extensions connected to existing communications systems. This architecture ensures that external parties only see encrypted data, whereas any extension within the company can communicate with secure mobile phones.
TopSec Mobile

The TopSec Mobile crypto handset has been used for years by companies and governments worldwide for encrypting sensitive telephone calls. The encryption solution delivers tap-proof calls between smartphones (iPhone, Android, Windows Phone, BlackBerry), PCs and corporate fixed networks.

The TopSec Mobile is connected to the respective terminal device via Bluetooth® as an independent encryption unit. Users talk and listen through the TopSec Mobile’s microphone and speaker while the TopSec Mobile’s reliable hardware encrypts the calls.

The communications device is merely transmits the encrypted VoIP data.

The TopSec Mobile is approved for information classified as NATO RESTRICTED and CONFIDENTIAL.
Endpoint security and trusted management

Rohde & Schwarz Cybersecurity offers innovative, proactive security solutions for laptops, desktops and mobile devices. The broad spectrum of solutions comprises secure browsing and secure PCs with comprehensive protection against advanced persistent threats, secure mobile devices and voice encryption, as well as encryption solutions for hard disks, mobile devices, cloud-based memories and file shares.

Endpoint security and trusted management products
- Browser in the Box
- TrustedDisk
- TrustedDesktop
- Panbox
- BizzTrust
- TrustedObjectsManager
- TrustedIdentityManager
- R&S®CryptoServer
Browser in the Box is a virtual environment for secure Internet surfing. While virus scanners offer only reactive protection against malware, Browser in the Box proactively protects against all virus, Trojan, advanced persistent threat and zero-day-exploit attacks originating from the Internet during web surfing. Easy Windows-based operation and uncompromising centralized management with synchronization options for ActiveDirectory, eDirectory and LDAP make implementation easy, even in enterprise environments. Users embrace the solution thanks to its transparent Firefox and Chrome interface and advanced virtualization technology.
TrustedDisk

Full-disk encryption provided by TrustedDisk encrypts not only data, but the complete operating system including temporary files. Trusted-Disk uses a transparent, realtime encryption technique.

The enterprise version additionally offers centralized management for TrustedDisk clients, user groups and roles. Centralized management makes it possible to monitor the encryption status of all TrustedDisk clients and the rights allocated to them.
TrustedDesktop is a secure virtual desktop solution for controlling the flow of information. It is based on the strict separation of critical applications and company-wide workflows as well as on the effective implementation of security guidelines. The innovative technology permits comprehensive and reviewable protection of all corporate data throughout the lifecycle of this data. The system ensures that protected information is handled only by trusted components.
TrustedObjects Manager

TrustedObjects Manager is the central management component for many Rohde & Schwarz Cybersecurity products. It can be integrated into a company's LDAP (ActiveDirectory, eDirectory, Notes) and provides a complete public key infrastructure (PKI). An administrator can centrally and conveniently configure company-wide security policies and product configurations. Additionally, all products and appliances are fully provisioned.
TrustedIdentity Manager makes it easy to implement and manage secure certificate-based authentication and encryption. Examples include Windows login, VPN access, hard disk encryption, S/MIME encryption for emails and secure authentication for other applications and for single sign-on.

The solution optionally includes an integrated, compact public key infrastructure as well as all of the necessary components for activities ranging from personalization and management of smart cards to basic management of the required certificates.
BizzTrust from Rohde & Schwarz Cybersecurity provides a secure platform for smartphones and tablets. Based on a hardened security kernel for Android, the system is split into two regions, a private region ("personal") and a corporate region ("business"). Applications and data in the respective regions are strictly separated. This prevents user-installed apps from gaining access to sensitive corporate data, for example.

The separation between business and personal regions makes secure access to the corporate network possible. Applications from the business region can access emails, contacts, calendars and the intranet and can exchange data via a secure VPN tunnel. Access to external websites is provided via the corporate firewall, which filters out dangerous content. Added to this is an easy-to-use email encryption based on the S/MIME standard with end-to-end security and tap-proof telephony.
Rohde&Schwarz Cybersecurity offers a complete portfolio of solutions, ranging from IP classification software to network sensors and software solutions for network analysis at the application and user levels. These solutions help network operators to detect application trends, market new data services and improve service quality for users.

The protocol and application classification and analysis engine (PACE) enables network infrastructure and security vendors to develop products with intelligent bandwidth control, prioritized quality of service delivery and reliable network security. Over 200 network operators in more than 60 countries around the world rely on Rohde&Schwarz IP network analytics solutions to minimize capital and operating expenditure, increase profitability and maximize user satisfaction.

Network analysis products
- R&S®PACE
- R&S®Net Reporter
- R&S®Net Reporter Compact
- R&S®Net Sensor
The R&S®PACE 2 protocol and application classification and analysis engine represents a core technology in the Rohde & Schwarz Cybersecurity product line. It ensures network security and protects organizations and users against threats such as viruses, malware and cyberattacks.

R&S®PACE 2 is a state-of-the art software library that uses cutting-edge technologies, including layer 7 classification, behavioral, heuristic and statistical analysis, to classify network protocols and applications in IP traffic – even when advanced obfuscation and encryption techniques are used – while simultaneously extracting metadata in realtime with industry-leading accuracy.
The R&S®Net Sensor is an innovative, intelligent IP probe used by network operators and service providers to gain critical data regarding the IP data traffic in their networks, as well as to gather information about user behavior and to uncover statistical trends in cellular and fixed networks.

Used in conjunction with an analysis system such as R&S®Net Reporter, the R&S®Net Sensor provides valuable information about the data traffic in the operator's network and helps to understand new trends, user behavior and user quality of experience (QoE). Using this data, operators are able to plan network capacity efficiently, introduce new services and generate additional revenue through targeted marketing.