TRENDY A ŘEŠENÍ V OBLASTI KYBERNETICKÉ BEZPEČNOSTI

SEMINÁŘ AFCEA BS75 29/5/2024 PA

Pavel Kotyk
ROHDE & SCHWARZ – Praha, s.r.o.

ROHDE & SCHWARZ

Make ideas real

ROHDE & SCHWARZ

► Independent family-owned company established in 1933 in Munich, Germany

► Subsidiaries in more than 70 countries

► Revenue of 3 billion € (FY 2022/2023)

► Around 13,000 employees worldwide (one of three main factories in Vimperk-900 employees)

► A leading supplier in all business fields

ONE COMPANY, THREE DIVISIONS, DIVERSE MARKETS: WE ARE A RELIABLE TECHNOLOGY PARTNER

TEST & MEASUREMENT

Wireless I Industry, Components & Research I Aerospace & Defense Testing I Automotive

TECHNOLOGY SYSTEMS

Secure Communications I Critical Infrastructure & Networks I Government I IP Network Analytics I Broadcast, Amplifiers & Media

NETWORKS & CYBERSECURITY

Endpoint Security I Secure Networks I Certified & High-Grade Crypto Solutions

ROHDE & SCHWARZ CYBERSECURITY OVERVIEW

► A leading provider of IT security solutions

► Part of the Rohde & Schwarz technology group

► More than 30 years of crypto experience

► Extensive project experience in the areas of state and federal networks and classified workstations

► Complete solutions approved for securing classified data by the German Federal Office for Information Security (BSI) with uniform security management

► Hardware and software platforms developed and manufactured in-house in Germany

R&S CS MAIN PILLARS

LANCOM MANAGEMENT CLOUD

A fully functional network is the heart of any business. Building it up and controlling it, however, can be time-consuming and error-prone. In an IT world with increasing complexity and a widespread shortage of skilled workers, what your network needs is a reliable control center. Dynamically control all your network operations in the WAN, LAN, Wi-Fi, and security from a single cloud platform — as automated as you like.

CENTRAL-SITE SECURITY FOR LARGE SD-WAN SCENARIOS

A key aspect for very large-scale multi-service IP networks is performance and reliability at the central site. At the heart of your SD-WAN, a multi-Gigabit gateway like the LANCOM ISG-8000 provides security and high performance. A powerful platform with state-of-the-art encryption technologies, high-scalability VPN, and extensive redundancy features delivers a Software-Defined Wide Area Network (SD-WAN) that greatly simplifies your work in administration.

NETWORK ENCRYPTION FOR HIGHLY SECURE DIGITAL COMMUNICATION

Our network encryptors R&S®SITLine protect public and commercial customers from espionage and manipulation of data transmitted via Ethernet over fixed lines, radio links or satellite. They meet the diverse requirements of public institutions, companies and critical infrastructures, which can rely on specially developed, customized solutions.

HIGHLY SECURE COMMUNICATION WITH SMARTPHONES AND TABLETS

The R&S Mobile Connectivity solution based on Indigo combines convenient and secure working with sensitive data on smartphones and tablets in accordance with the VS-NfD standard ("classified information - for official use only"), making every day work easier for users in government and security-critical environments. The R&S Mobile Connectivity solution thus represents an important step forward for organizations and companies that prefer secure mobile communication with devices to perform their daily tasks while meeting the highest security requirements.

R&S CS PORTFOLIO// „COMMERCIAL"

R&S® Lancom Portfolio

- ➢ LANCOM management cloud
- ➢ Network Equipment (Switches, Routers)
- ➢ UTM Firewalls
- ➢ SD-WAN
- ➢ WiFi

R&S CS PORTFOLIO// „BSI CERTIFIED / ORDERED"

► Central Security Management & PKI

► Network Encryption – Layer 2 & Layer 3

► Zero Trust Endpoint Protection

   Full-Disk, File & Email Encryption

   VPN Client, Zero Trust Browser

► High Grade Crypto for Voice & Data

R&S® MOBILE CONNECTIVITY - INDIGO IN THE BOX

► INDIGO - iOS Native Devices in Government Operation"

► iPhones and iPads to be used for data up to restricted classification level

► German BSI has confirmed compliance with the security requirements

► Suitable for authorities and security-critical organisations

COMPANY RESTRICTED

NIS2 CHALLENGE
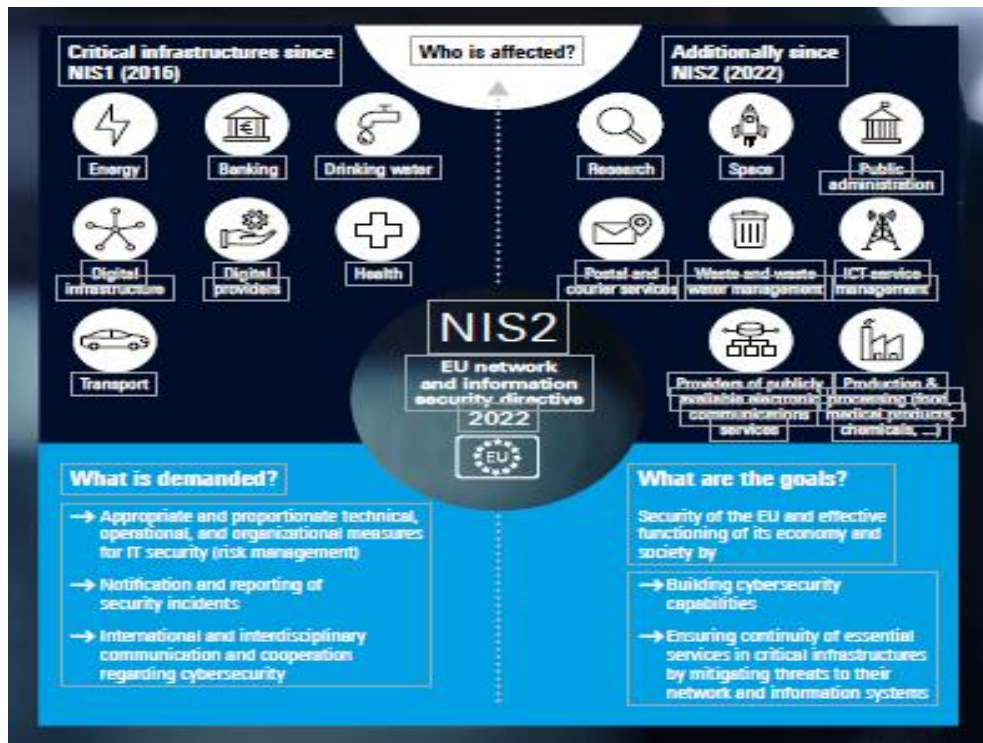
R&S CS REFERENCES

AGILE SD-WAN FOR ATU

Modern network management for Germany's largest car repair chain with over 500 branches today

The SD-WAN is the basis for the entire ATU branch network. It therefore forms the backbone for the digitalization of all of the sites and their connection to the company headquarters. ATU also relies on a comprehensive digital network at the local sites. All components – from the branch routers, Wi-Fi access points, and switches through to the multi-Gigabit gateways in the head office – are managed via a central instance, the LANCOM Management Cloud (LMC). Numerous automated processes ensure efficient and secure management from the cloud. Especially during the rollout and network expansion, ATU benefits from functions such as the automatic provisioning of all devices.

Redundancy and reliability play an important role at ATU. After all, the failure of a branch router or a central gateway not only costs nerves, but also time and money. ATU uses four central gateways, each in a separate data center at two different, geo-redundant locations. The branches also have backup scenarios via mobile communications to ensure maximum availability.

" We wanted to implement an alternative solution to MPLS: a more attractive and agile type of site networking. Standard broadband access, high reliability, performance, and a secure connection have been the core requirements for our site connectivity. "

Volker Hermann
Team leader "Communication & Collaboration" at ATU

HIGHLY SECURE ENCRYPTION FOR AUTHORITIES

The Saarland has been the first federal state in Germany to introduce modern, flexible, and comprehensive encryption

The Saarland uses a multipoint-to-multipoint encryption including a modern layer 2 encryption solution that fulfills the strict BSI requirements for the transfer of VS-NfD data. The R&S®SITLine ETH effectively prevents exchanged documents, data streams or e-mails from being read by outsiders. This concept was implemented separately twice in the Saarland: once for the police and once for the IT-DLZ with the connected state authorities.

Our partner T-Systems carried out the detailed planning of the concept, including the rollout, and implemented the security solution. This project not only included preparing and supporting the commissioning of the hardware boxes, but also adapting them to the specific requirements of the state data network and the authorities. Thanks to the hardware integrated in these encryption boxes, users experience no loss of performance.

" The public authority decided to take existing IPsec-based encryption to a new level and will be replacing it with the high-performance encryption solution from Rohde & Schwarz Cybersecurity.

Marian Rachow
CEO Rohde & Schwarz Cybersecurity "

ROHDE & SCHWARZ CYBERSECURITY SUMMARY

► ROHDE&SCHWARZ is active in cybersecurity

► Broad portfolio made in house in Germany

► 100M€+ revenue

► Commercial and certified products

► Local presence. sService and costumer oriented appr

► subsidiary RS CZ:

  – 16M€+ revenue 23/24

  – 25+ years present on the market

  – Service and costumer oriented approach

► BSI/NUKIB proofed cooperation in certification process

► Thank you very much for your attention

SecurITy
made in Germany

Pavel Kotyk — ROHDE & SCHWARZ – Praha, s.r.o.

Sales Engineer
Radiocommunications
Cyber Security
Security Scanners

CZ - Evropská 2590/33c | 160 00 Praha 6
Phone +420 224 323 015
       +420 224 311 232
Fax   +420 224 317 043
Mobile +420 602 470 281
pavel.kotyk@rohde-schwarz.com
www.rohde-schwarz.cz

ROHDE&SCHWARZ