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RUGGEDCOM APE1808

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Make no mistake: digitalization is opening countless doors for optimizing operations in electric power generation and distribution, transportation, and the oil and gas industry. But with so much critical data shared between production networks and enterprise IT, how do you ensure those doors aren't open to unwanted intruders?

Your goal in this fast-changing cyber security landscape is to protect confidential information and keep infrastructure secure, while at the same time maintaining high network availability so operations don't suffer.

The new version of the RUGGEDCOM APE utility-grade application hosting platform is ideal for safely running third party software applications in harsh, mission-critical environments. Without adding the complications of installing an external industrial PC, RUGGEDCOM APE1808 excels in a

range of applications such as security appliances, firewalls, network log and load processors, and intrusion sensors. Leveraging the built-in switching and routing capabilities of the RUGGEDCOM RX1500 multi-service platform, this unit plugs directly into most members of the cost-efficient RUGGEDCOM RX1500 family. Based on Intel quad core, x86_64 architecture with support for Linux and Windows 10, the RUGGEDCOM APE1808 provides a standards-based platform for commercially available software, enabling partnerships with industry leaders in cyber threat detection and prevention.
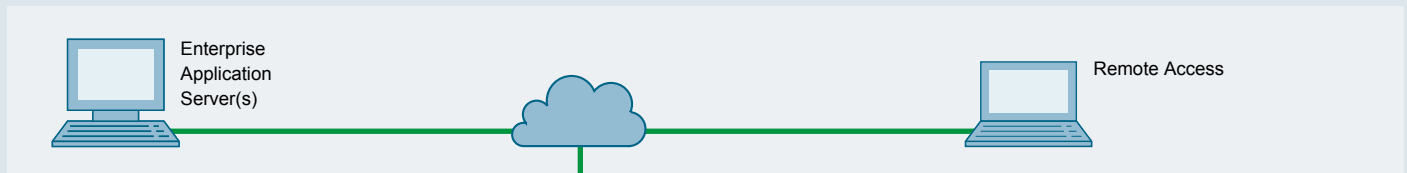
Taking into account region-specific preferences to cyber security, this system helps create an ecosystem of best-in-class security solutions customized to your needs. And with no scheduled maintenance required and 24/7 availability, RUGGEDCOM products provide critical infrastructure access and peace of mind security—all from a single source.
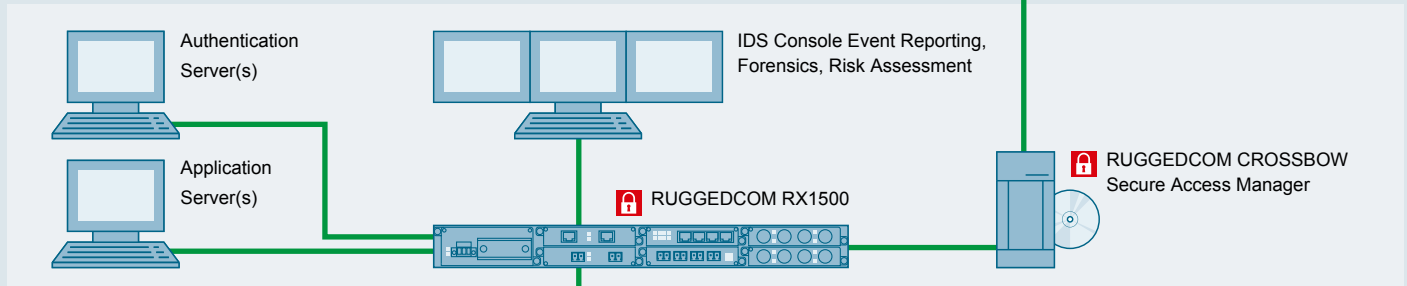
Key Features at a Glance

- Microsoft Windows 10
- Linux
- Intel quad core, x86_64 architecture
- Two physically separated Gigabit Ethernet interfaces
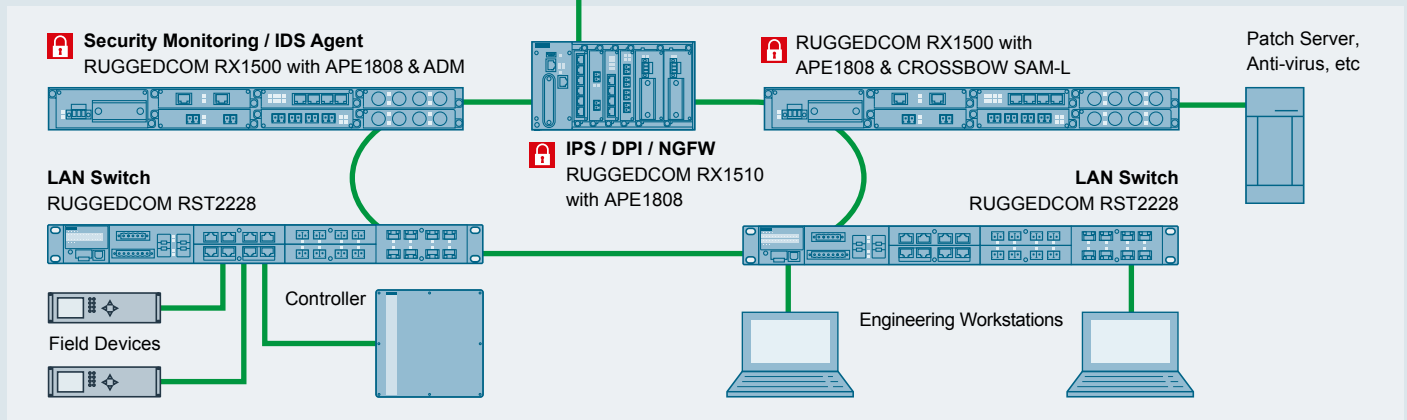- Secure remote access
- Protocol conversion
- Security appliance

Corporate Network

Enterprise Application Server(s)

Remote Access

Operations Center

Authentication Server(s)

Application Server(s)

IDS Console Event Reporting, Forensics, Risk Assessment

🔒 RUGGEDCOM RX1500

🔒 RUGGEDCOM CROSSBOW Secure Access Manager

WAN

Remote Site

🔒 **Security Monitoring / IDS Agent**
RUGGEDCOM RX1500 with APE1808 & ADM

🔒 RUGGEDCOM RX1500 with APE1808 & CROSSBOW SAM-L

Patch Server, Anti-virus, etc

🔒 **IPS / DPI / NGFW**
RUGGEDCOM RX1510 with APE1808

LAN Switch
RUGGEDCOM RST2228

LAN Switch
RUGGEDCOM RST2228

Controller

Field Devices

Engineering Workstations

■ Industrial Ethernet (Copper)

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RUGGEDCOM CROSSBOW is a secure access management solution designed to provide cyber security compliance including NERC CIP access to Intelligent Electronic Devices (IEDs).

Above is an example of an industrial network which could be deployed in Electric Power, Transportation, Oil&Gas and other industries.

Terminology
- IDS (Intrusion Detection System)
- IPS (Intrustion Prevention System)
- DPI (Deep Packet Inspection)
- NGFW (Next Generation Firewall)
- SAM-L (Secure Access Manager – Local)
- ADM (Asset Discovery & Management Agent)

Security information

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept.

For more information about industrial security, please visit:
http://www.siemens.com/industrialsecurity

The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.