



The solution for secure communication, data collection and processing in industrial control systems



With INSYS Smart Devices, INSYS icom offers intelligent fully modular industrial router platforms for the secure networking of their plants as well as the collection and processing of (I)IoT data. The heart of the INSYS Smart Devices is the multipurpose IoT operating

system icomOS. By integrating Rhebo's industrial anomaly detection, operators further strengthen their defense-in-depth and increase the availability of their industrial control systems.

Comprehensively securing (I)IoT

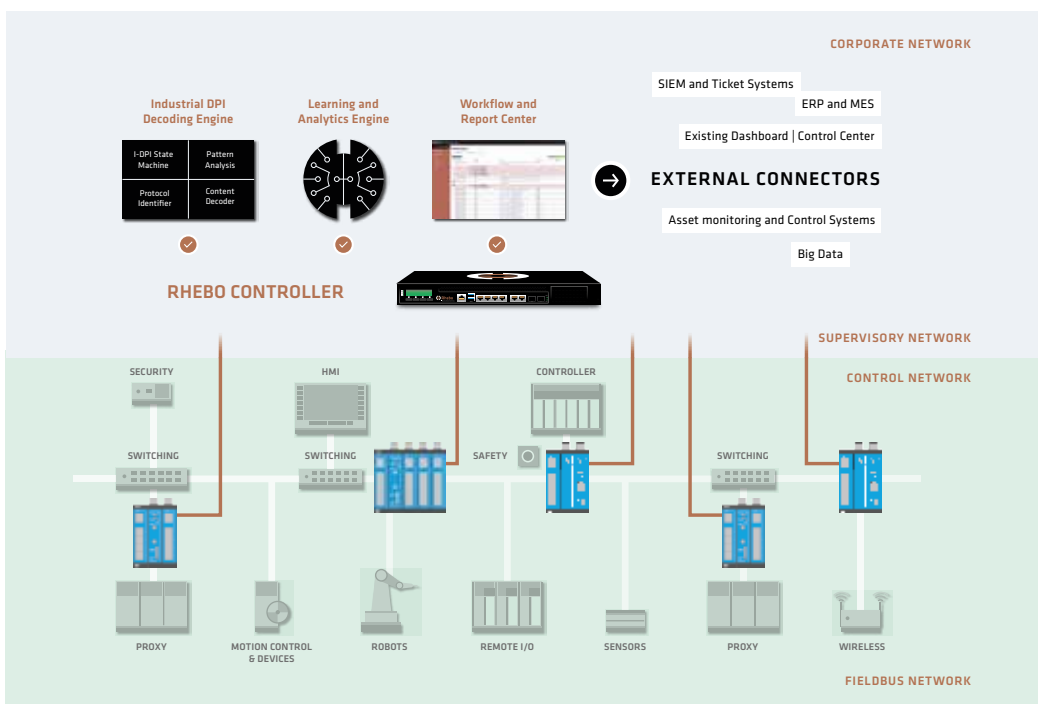
With the INSYS Smart Devices from INSYS icom, operators of industrial control systems can fully realize the digitalization of their industrial processes. The smart routers and gateways enable the implementation of cyber security, remote maintenance, condition monitoring and Big Data Analytics easily and future-proof. The IoT operating system icomOS with a multitude of pre-installed security features guarantees secure data transmission in industrial control systems. Their basic protection consisting of VPN tunnel, firewall and segmentation is extended by the industrial anomaly detection Rhebo Industrial Protector to a true defense-in-depth.

Rhebo Industrial Protector continuously analyzes the communication within the industrial control system. Cyber attacks, manipulation and vulnerabilities as well as technical error conditions are identified, evaluated and reported in real-time. Together with the network map, operators gain a comprehensive overview of their system's security and performance status at all times.

Increase productivity and availability

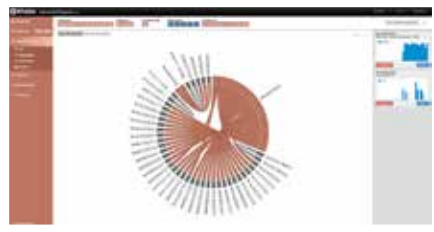
Furthermore, the integrated software suite by INSYS icom enables the collection of (I)IoT data which, if required, can be processed via edge computing. The data can be transferred directly to e.g. SCADA or cloud systems for further processing. The integrated Linux environment (LXC) facilitates the execution of customer-specific scripts and programs.

Moreover, Rhebo Industrial Protector provides detailed information on network quality and performance. Technical error states that impair real-time processes or long-term availability, for example, are reported in real-time. All forensic data on incidents is stored and can be used for process optimization or predictive maintenance. This ensures consistently high availability, security and efficiency in both, critical infrastructures and automated production.



Your advantages with mit Rhebo and INSYS icom

- ✔ Combination of IoT applications, ICS monitoring and anomaly detection on high-quality INSYS Smart Devices
- ✔ Real-time detection and reporting of attacks, vulnerabilities and potential threats
- ✔ Improvement and assurance of plant availability and security of supply through early detection of technical error conditions
- ✔ Increased actionability through integrated risk assessment and forensic data storage
- ✔ Cost savings through integration of applications for remote maintenance, condition monitoring and ICS security monitoring
- ✔ Maximum flexibility due to high degree of virtualization via Linux container and multiple interfaces



Two strong partners for industrial digitalization



Rhebo is a German company that specializes in the reliability and resilience of industrial and critical infrastructure companies. With its solutions and services, Rhebo monitors all data communication within industrial control systems (ICS), and reliably reports attacks, vulnerabilities as well as technical error states. Thus, Rhebo supports operators of ICS to increase cyber security, productivity and availability of their systems and plants, and to safeguard the digital transformation of their processes. In this role, the company is actively involved in the Alliance for Cyber Security of the Federal Office for Information Security (BSI), the Teletrust – Bundesverband IT-Sicherheit e.V. and the Bitkom Security Management Working Group to develop standards and technical guidance.

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INSYS icom Secure communication and networking of data in industrial applications – this is the day-to-day business of INSYS icom. With its intelligent and high-performance hardware and software solutions (Managed Devices and Services), machines, systems and other devices can be accessed remotely and their operating data transmitted. INSYS icom works every day with new passion to advance the digitalization and implementation of IIoT.

INSYS icom

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