Detecting cyberattacks in operational technology
Effective data processing and OT security with WAGO Industrial Protector powered by Rhebo

WAGO

OT SECURITY Made in Germany

With WAGO's new Industrial Protector, the leading solution provider for industrial data processing is expanding its portfolio with an effective intrusion detection system powered by Rhebo. The WAGO Edge Controller and WAGO Edge Computer not only allow those working in energy and building automation, the process industry, and the chemical industry to accelerate their data processing. The integrated Industrial Protector also protects sensitive, critical processes by means of communication monitoring as well as intrusion and anomaly detection in operational technology.

Uncompromising cybersecurity at the edge

The digitization and data-driven automation of industrial processes require powerful data processing and control. Due to the intensive integration of OT networks into corporate IT functions and systems, industrial infrastructures also require effective intrusion detection. That functionality must be tailored to the specific properties (including limited »built-in« security mechanisms) and requirements, such as real-time processes, process stability, as well as communication structures and protocols. WAGO offers the benchmark for optimized data utilization in the field with its edge devices, the Edge Controller and Edge Computer. With WAGO Industrial Protector developed by Rhebo, these powerful applications are now amended by uncompromising OT cybersecurity. The installation and administration of the Industrial Protector on the edge devices can be managed centrally, rapidly, and agile due to its implementation as a Docker container. During operation, the Edge Controller continuously and passively monitors all communication processes passing through the device and transmits them to the Edge Computer. The anomaly detection on the Edge Computer analyzes and visualizes incoming data in real time, immediately reporting any deviations in communication behavior. This allows for the early detection, localization and forensic analysis of cyberattacks and manipulation attempts, espionage activities, as well as technical error conditions. As with the OT monitoring, the anomaly detection works passively and non-intrusively. Anomalous communication patterns are not automatically blocked, but are forwarded for assessment to the responsible team within the company. This ensures that critical and sensitive processes are not interrupted without the approval of those responsible. If required, WAGO and Rhebo take over the operation of the security solution as a Managed Detection & Response service.

Your advantages with WAGO Industrial Protector

✓ **REAL-TIME VISIBILITY INTO OPERATIONAL TECHNOLOGY**
through asset discovery and ICS communication monitoring.

✓ **OT SECURITY MADE SIMPLE**
with OT-focused security analysis and intelligent visualization.

✓ **ENSURING ACTIONABILITY**
by providing support for risk analysis, IDS operations, and forensic analysis.

✓ **SECURITY FROM KNOWN AND EMERGING CYBERATTACKS**
through an OT Intrusion Detection System (IDS) with OT monitoring, asset discovery and threat detection.

✓ **SECURITY AGAINST TECHNICALLY INDUCED SYSTEM FAILURES**
with integrated network condition monitoring.

✓ **ENSURING LEAN DIGITIZATION**
with agile Docker container format and powerful, multifunctional use of WAGO Edge Devices.

Data processing and cybersecurity directly in the plant

The Edge Controller and Edge Computer from WAGO stand for fast, lean, effective data processing in industrial processes. They relieve the strain on process control by collecting data and performing tasks to be processed directly on the machines. This makes smart processes efficient, powerful, and robust. Both edge devices function as standalone PLCs, on which applications such as the Industrial Protector, Grafana, InfluxDB, and IEC runtime can be run as microservices. Together with Industrial Protector, the Edge Controller and Edge Computer thus combine all aspects of IT/OT integration and industrial digitalization:

- uncompromising OT cybersecurity against known and novel attack patterns;
- easy online reconfiguration of applications without hardware replacement or on-site deployment;
- comprehensive functions for remote control of devices and systems;
- powerful data collection, storage, and processing, especially for time series;
- flexible data visualization for graphical representation of metrics, logging, and tracing;
- cost-efficient administration and scaling due to containerized applications.
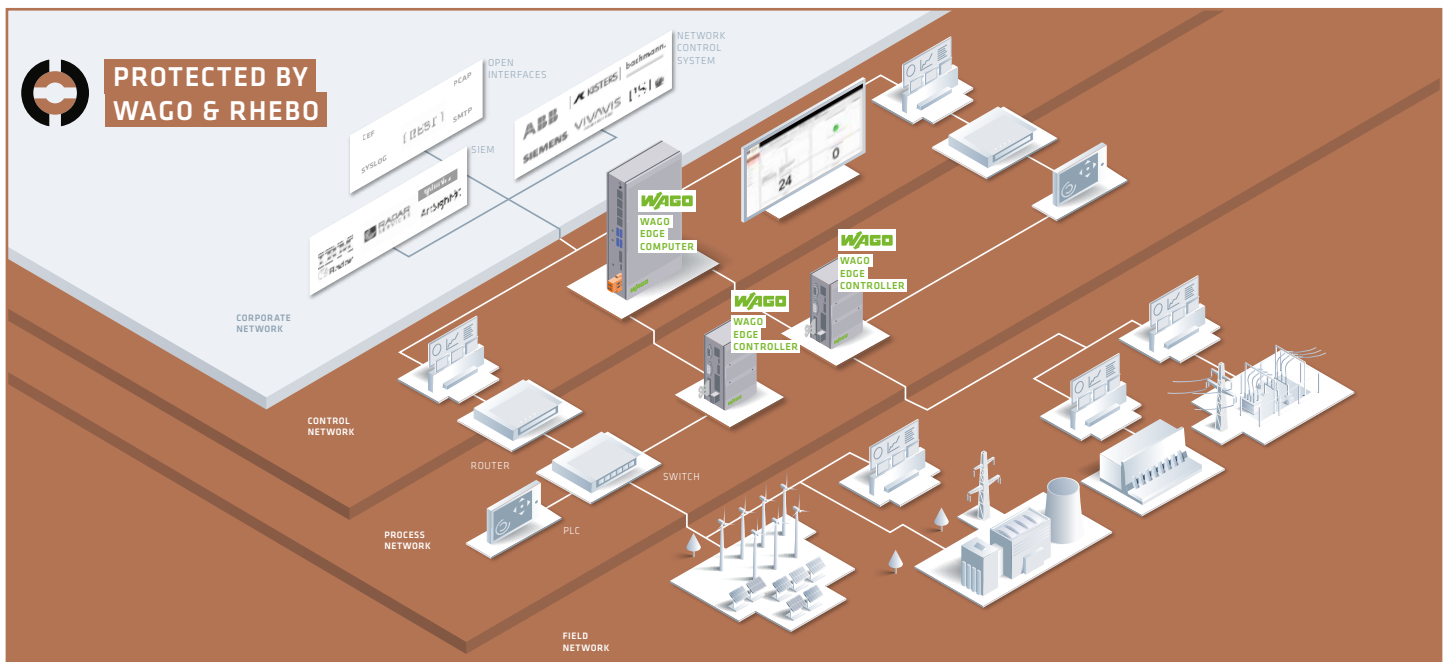
Two strong partners
for industrial data processing and cybersecurity

Rhebo
a Landis+Gyr company

Rhebo provides simple and effective cybersecurity solutions for Operational Technology and distributed industrial assets for the energy sector, critical infrastructure and manufacturing. The German company supports customers with OT security from the initial risk analysis to managed OT monitoring with intrusion & anomaly detection. Since 2021, Rhebo is part of the Landis+Gyr AG, a leading global provider of integrated energy management solutions for the energy industry with around 7,500 employees in over 30 countries worldwide. Rhebo is a partner of the Alliance for Cyber Security of the Federal Office for Information Security (BSI) as well as the Teletrust – IT Security Association Germany. The company was awarded the »Cybersecurity Made In Europe« label for its strict data protection and data security policies.

WAGO

Since its establishment in 1951, **WAGO** has been an international, family-run company that offers both market-leading products for electrical connection technology and an open automation platform that is recognized across many industries. WAGO products connect, measure, and control, using simple solutions and intelligent connections. Customers benefit from scalable solutions to integrate physical metrics as well as applications and assets in areas such as building automation, energy management, store floor connectivity, and more. Today, the WAGO Group employs about 8,500 people worldwide at nine international production and sales locations, 22 additional sales companies, and at the software specialist M&M Software. In addition, the company is represented in more than 80 countries. *www.wago.com/de*

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