Rhebo
OT Security Made Simple

Solution Brief

Rhebo Industrial Protector

Network-based Intrusion Detection for OT Infrastructure

OT SECURITY Made in Germany

OPERATE NIS2-COMPLIANT THREAT & INTRUSION DETECTION

REDUCE THE CYBER RISK OF OT DOWNTIME

INTEGRATE CYBER-SECURITY FAST AND SIMPLE IN YOUR OT

Rhebo Industrial Protector is a network-based intrusion detection system (NIDS) that continuously and passively monitors OT communications for suspicious or anomalous activity. Its built-in anomaly detection alerts security managers at critical infrastructure facilities and industrial companies in real time to emerging cyber threats in their OT environments.

Even successful attacks via vulnerability exploits, brute force, backdoors, insider threats, or stolen credentials – as well as technical errors – are detected early on. Rhebo Industrial Protector provides a seamless transition from a OT risk assessment to continuous network-based intrusion detection in industrial networks in accordance with the NIS2 and national cybersecurity legislation.

»With Rhebo, we can centrally and reliably secure our energy supply as well as the municipal utilities and over 16,000 decentralized energy producers we serve. The newly gained transparency and continuous monitoring visibly increases our network quality«.

Distribution system operator Thüringer Energienetze GmbH & Co. KG

What you gain with Rhebo Industrial Protector

- **REAL-TIME VISIBILITY IN YOUR OT** of assets, connections, vulnerabilities and communication structure through passive monitoring
- **SIMPLE INTEGRATION OF OT SECURITY** through on-premise installation, high usability & minimal configuration
- **EFFICIENT THREAT & INTRUSION DETECTION** through real-time alerts of anomalies due to communication changes and error states
- **LEGALLY COMPLIANT INCIDENT REPORTING** through packet capture and the exact localization of anomalies
- **DIGITALLY SOVEREIGN OT SECURITY** through EU-based development and support for the NIDS operation
- **STRONG CYBERSECURITY COMPLIANCE** with a network-based intrusion detection system in accordance with NIS2 & IEC 62443

Hunt down OT anomalies and vulnerabilities in real-time

Rhebo Industrial Protector continuously monitors all communication within, to and from the OT. The monitoring is integrated non-intrusively and passively at key points of the OT. Any communication that indicates cyberattacks, tampering, espionage or technical error conditions is reported in real time without compromising the critical industrial processes.

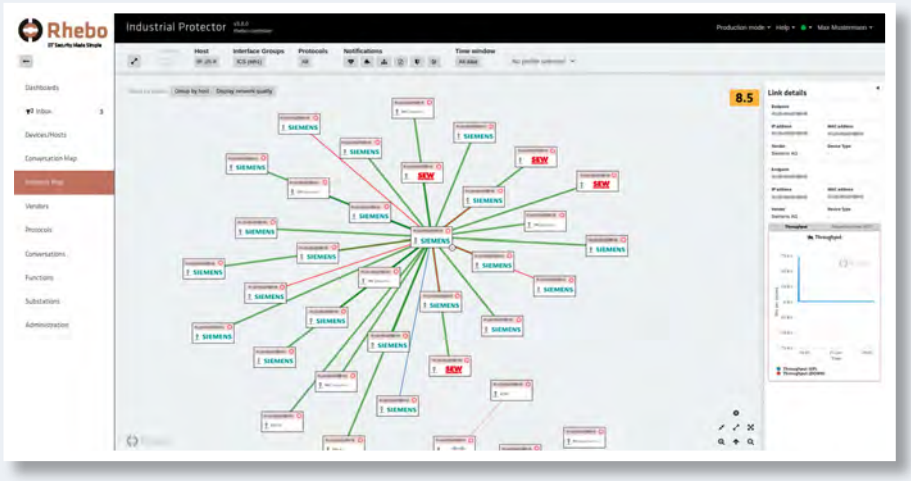
Operators and security personnel can respond quickly to threats, prevailing vulnerabilities and professional attack patterns to ensure the security and availability of their industrial processes.

Utilizing practical functions such as risk score, network map, forensic packet capture (pcap), filters and APIs for SIEM integration, the OT monitoring with anomaly detection actively supports security managers with the efficient detection, analysis and mitigation of incidents, including

- new hosts and communication types,
- new protocols and connections between hosts,
- lateral movement,
- network scans;
- download or upload of payloads,
- any changes in the legitimate OT communication.

OT- & ASSET VISIBILITY

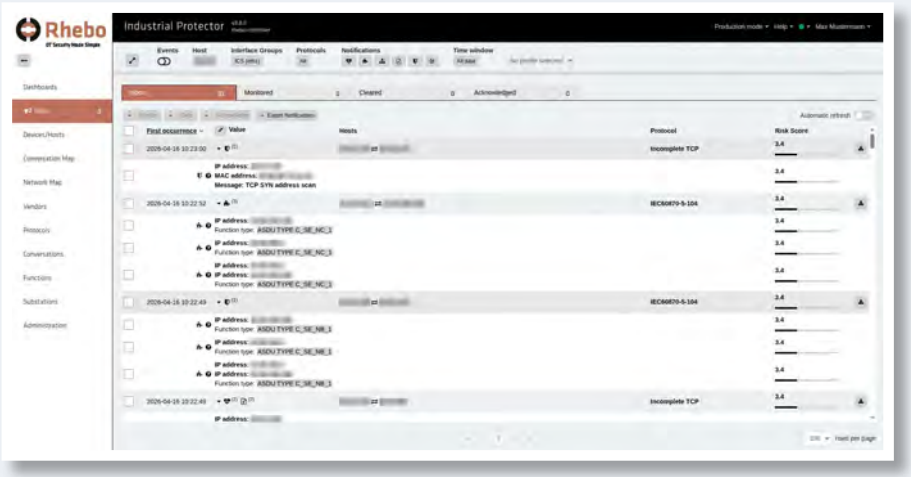
The OT monitoring establishes real-time OT visibility over all devices and systems communicating within, to, and from the monitored OT network. This visibility includes relevant information on the devices and systems like firmware versions, active connections, protocols and existing vulnerabilities. The function provides the means for asset discovery and inventory as well as in-depth analysis of communication patterns over time.



Network map of OT systems and their connections with details of one selected connection.

INTRUSION & ANOMALY DETECTION

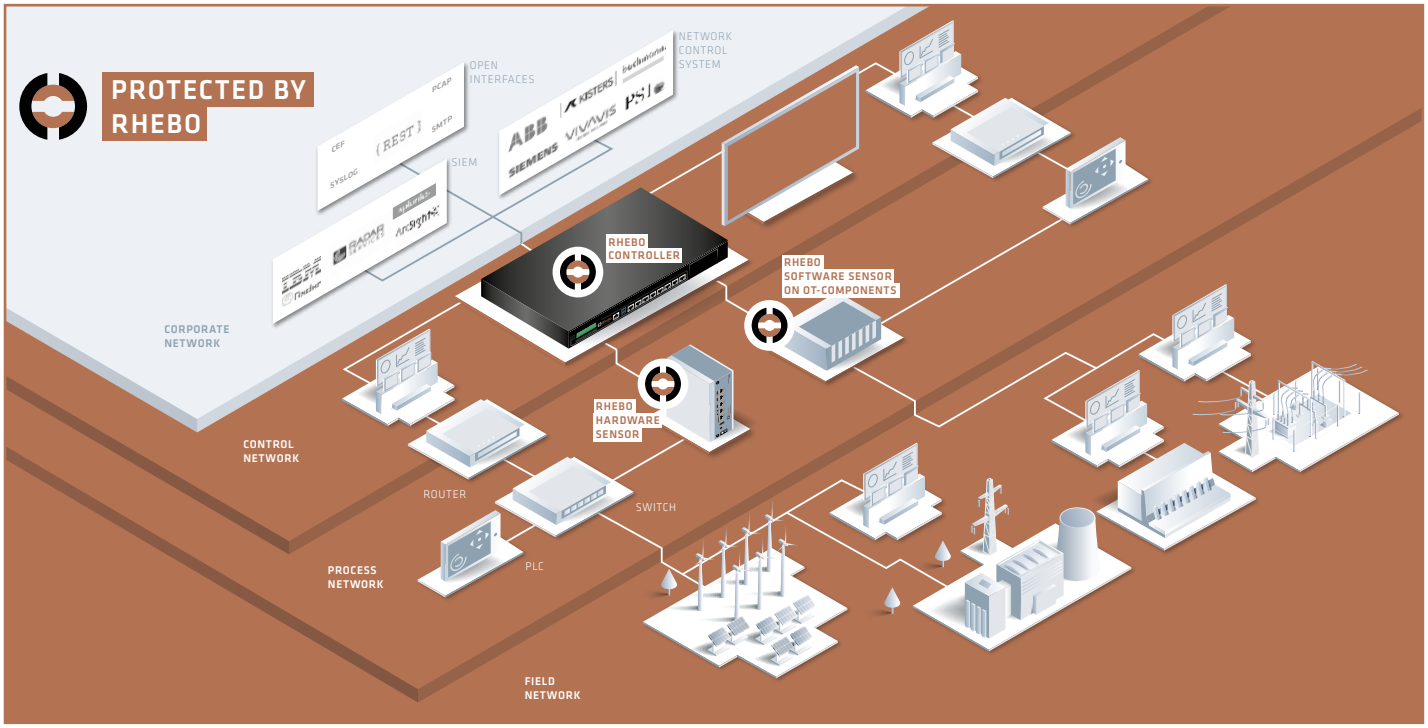
The anomaly detection identifies any changes in behavioral patterns. This allows for the detection of even successful attacks via security gaps in firewalls, brute force, zero-day exploits, internal perpetrators, backdoors or stolen credentials as well as technical error states due to misconfigurations or network deterioration.



List of identified anomalies including separate communication packets (here: an address scan and changes of the communication behavior between two hosts via the protocol IEC60870-5-104)

Integrate OT Security

fast, robust and without compromising your processes



Rhebo Industrial Protector

Your lean and dedicated OT intrusion detection

What you gain

- real-time detection of cyber attacks and technical error states within the OT,
- full visibility of OT components for your asset inventory,
- documentation of asset properties incl.protocols, connections and known vulnerabilities,
- sound expertise in OT security,
- compliance with the requirements for an OT intrusion detection system in accordance with the national NIS2 transition laws and international standards.

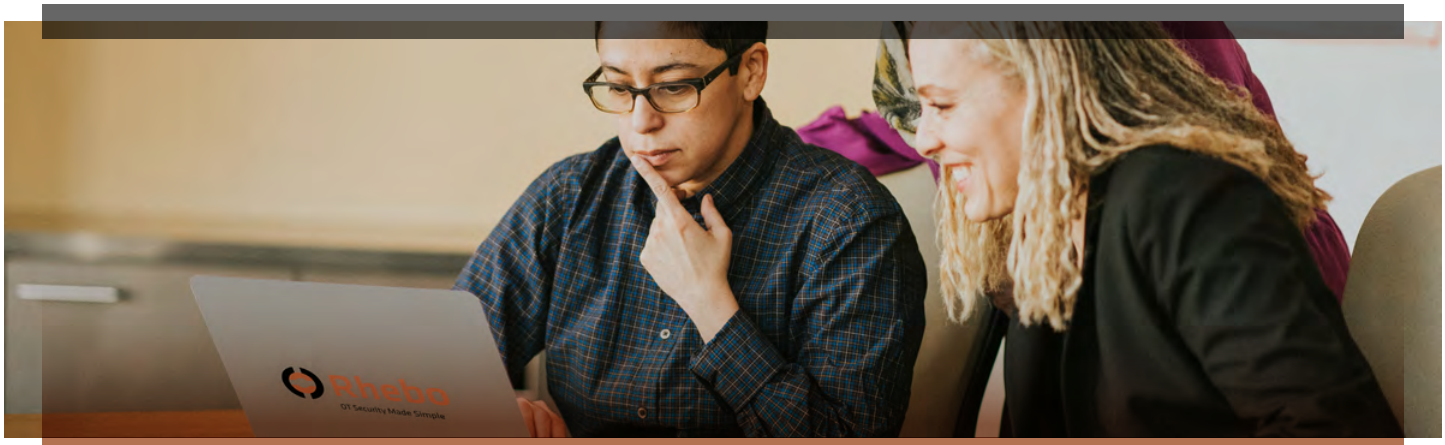
Why it works

- continuous and network-based monitoring of all communication to, from and within the OT*,
- detailed behavioral analysis of network traffic utilizing deep packet inspection technology,
- passive and non-intrusive monitoring and anomaly detection,
- real-time alerts of security incidents and technical error states,
- recording of incidents as pcap files for forensic analysis,
- on-demand support by Rhebo for defining the communication baseline and operating the OT NIDS.

Why Rhebo

- OT Security Made in Germany for strong sovereignty,
- tried-&-tested network-based Intrusion Detection System (NIDS) against multi-level, complex cyber attacks,
- NIDS available for isolated, on-premise installation,
- vendor-agnostic NIDS for any OT environment,
- OT Security Made Simple for small teams,
- easy scalability across multiple networks with a central point of control,
- active support team with years of expertise in OT security.

* For the list of supported protocols, please refer to the Rhebo Industrial Protector spec sheet.



Protect your OT against cyberattacks

ww.rhebo.com | sales@rhebo.com | +49 341 3937900

1 OT RISK AND VULNERABILITY ASSESSMENT

2 OT NETWORK-BASED INTRUSION DETECTION SYSTEM

3 FORENSIC & OPERATIONAL SUPPORT

Secured by Rhebo

Leipziger Wasserwerke · Thüringer Energienetze · envia TEL · MEGA · e·netz südhessen · STADTWERKE BOCHUM

OT Security Made In Germany

OT SECURITY Made in Germany · INFORMATION SECURITY MANAGEMENT SYSTEM DNV ISO/IEC 27001 · bitkom · CYBERSECURITY MADE IN EUROPE Initiated by ECSO. Issued by eurobits e.V. · Allianz für Cyber-Sicherheit

Rhebo OT Security Made Simple

Rhebo provides simple and effective intrusion and anomaly detection Made in Europe for OT networks and IIoT edge devices for critical infrastructure, (multi-)utilities and manufacturing. We support companies with establishing OT security from the initial risk assessment to the operation of the network-based intrusion detection systems, and forensic analysis of anomalies. As a trustworthy cybersecurity provider, Rhebo is ISO 27001 certified and was awarded the »Cybersecurity Made In Europe« label for its strict data protection and data security policies.

www.rhebo.com

Rhebo GmbH Spinnereistraße 7 | 04179 Leipzig | Germany
rhebo.com

SOLUTION BRIEF Rhebo Industrial Protector | 05-2026
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