

RAILWAY CYBER SECURITY BY SELECTRON

SECURITY BY DESIGN



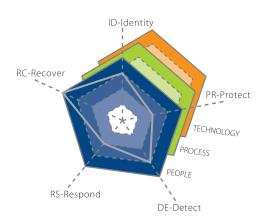
Selectron is the Knorr-Bremse Railway Competence Center for Product Cyber Security

Swiss-based Selectron Systems AG belongs to the Knorr-Bremse Group. With more than 60 years of experience, Selectron is one of the world's leading companies of providing hardware and software for TCMS solutions (Train Control & Management System) for car builders, integrators and operators. High-quality standards, innovative technology and an integrated, generic SW chain – from OS to tools – form the main pillars of its huge success.

The Selectron Cyber Security vision:

To become the leading secure solutions provider in the railway sector by providing secure-by-design technology and security services - enabling our global clients to protect their business.

Implementation of a security framework based on IEC 62443 and NIST; considering people, processes and technology to mitigate cyber security risks and assure legal compliance



The Selectron Cyber Security mission:

- Create railway solutions with cyber security built in by design
- Provide innovative security services complementing Selectron solutions
- Accelerate transition to a defense in-depth collaboration with our clients

Safe railway control systems require **Cyber Security**



Operators seeking to increase productivity and reduce cost by implementing automated

(e.g., ATO initiatives of leading rail operators)

Transportation operators transitioning to digital



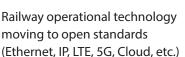




Solutions)

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Regulations: EU NIS Directive, TÜV, NIST, etc.

(e.g., fines could reach up to 4% of global turnover)

business models with ubiquitous networking (Predictive Maintenance, Smart Multimodal

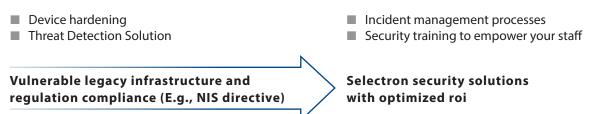
Why your organization should care: Threats and vulnerabilities in railways

- Vulnerable legacy infrastructure in railways
- Increasing attack surface as a result of ubiquitous networks
- Low cyber-readiness: Staff needs OT cyber tools, skill sets and processes
- Increasing cyber threats due to the use of open standards

How can Selectron support you? Solutions for our clients' challenges

Selectron cyber-resilience program for legacy systems

your cyber-resilience increased with a set of holistic measures; for example:



Selectron innovative security solutions

Selectron provides you with customized Security by Design solutions:



Selectron excellence training and consulting services

■ Selectron is a railway sector ISA/IEC 62443
training provider

■ Consulting services according to the
IEC 62443 standard:
■ Selectron Cyber Security Maturity
Assessment
■ Selectron Cyber Security Risk Assessment
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■ IEC 62443 standard:
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