

RAILWAY CYBER SECURITY BY SELECTRON

SECURITY BY DESIGN



SELECTRON

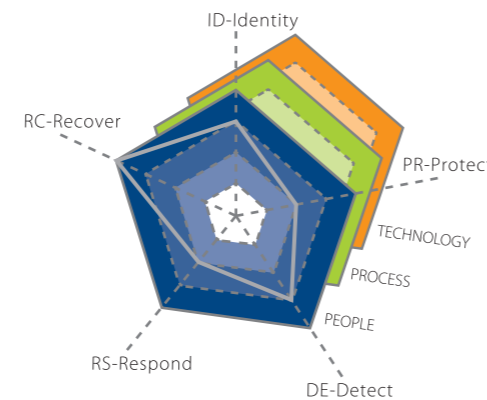
SELECTRON IS THE KNORR-BREMSE RAILWAY COMPETENCE CENTER FOR PRODUCT CYBER SECURITY

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

1 


Operators seeking to increase productivity and reduce cost by implementing automated operation (e.g., ATO initiatives of leading rail operators)

2 

Transportation operators transitioning to digital business models with ubiquitous networking (Predictive Maintenance, Smart Multimodal Solutions)

3 

Railway operational technology moving to open standards (Ethernet, IP, LTE, 5G, Cloud, etc.)

4 

Regulations: EU NIS Directive, TÜV, NIST, etc. (e.g., fines could reach up to 4% of global turnover)

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:

- Device hardening
- Threat detection solution
- Incident management processes
- Security training to empower your staff

VULNERABLE LEGACY INFRASTRUCTURE AND REGULATION COMPLIANCE (e.g., NIS DIRECTIVE)

SELECTRON SECURITY SOLUTIONS WITH OPTIMIZED ROI

SELECTRON INNOVATIVE SECURITY SOLUTIONS

Selectron provides you with customized Security by Design solutions:

- Security Gateway
- Threat Detection Solution (IDS)
- Secure CPU 94x, certified to IEC 62443

NEW DIGITAL BUSINESS' UBIQUITOUS NETWORKING INCREASES ATTACK SURFACE

NEW PRODUCTS WITH SECURITY BY DESIGN CONFORMING TO IEC 62443, NIS, ETC.

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

LOW OT CYBER-READINESS. NEED FOR ADAPTED TOOLS, PROCESSES & SKILL SETS

EMPOWERING YOUR TEAM TO IMPROVE YOUR OT CYBER MATURITY

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