

Rail Cybersecurity Centre of Excellence

Securing the Digital Railway together



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Project Proposal

- Project Title
 - Setup and establish a railway cybersecurity centre of excellence for Europe.
- Project Description
 - The S2R Multi Annual Action Plan details research and innovation activities organised in 5 Innovation Programmes (IPs). The cybersecurity component has been only partially addressed in IP2 but ignored from a broader perspective in the S2R MAAP which covers areas like Fleet Digitalisation, Intelligent Maintenance, Digital Transport Management & Customer Experience Applications. All these areas being highly technology and data dependant, needs to protect from malicious attacks.



Topics to be addressed

- Skills & Capacity Building
 - Cybersecurity skills & expertise on the rail industry
 - Knowledge management and training
- Collaboration & Sharing
 - Trusted information exchange and sharing
 - Coordinated actions for cybersecurity activities
- Passive Capabilities
 - Persistent threat monitoring and implementing countermeasures
 - Technology and Innovation Watch
- Reactive Capabilities
 - Cyber attacks investigation
 - Cyber security incident management



Why to do it?

- NIS Directive
 - Mandates member states to address cybersecurity as a national issue
 - Several member states classify railways as critical infrastructures
- GDPR
 - Personal Data handling and management is more critical
 - Some railway applications rely heavily on passenger related data
- National Strategies
 - Several member states have clearly mentioned railways : DE, NO, FR, UK*
 - Coordination with neighbouring countries helps



Profile of potential partners

- Project Coordinator
 - Administrative and Financial management
- Railway Operators
 - Customer Experience, User Applications
- Infrastructure Managers
 - Onboard Applications, Traffic Management,
- Product Suppliers
 - Product Engineering, Software Applications, Embedded Systems
- Observers
 - ERA, ENISA, DG MOVE, CERT-EU, DG DIGIT