



EU-RAIL SYSTEM PILLAR

Release Note Cybersecurity Specification V1.1

Version: 1.1



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Document data

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Document History

Version	Date	Description	Status
1.1	23-MAR-2026	Error correction and additional guidance	released
1.0	20-FEB-2025	Initial public release	released

Maintenance

After release, this document immediately enters the maintenance phase. Maintenance includes error corrections and general improvement of the document. Please send your change requests to the following email address:

cybersecurity.review@ertms.be

1 Preamble

1.1 Purpose

This release is foreseen for publication as output of System Pillar (System Pillar website).

The type of baseline is (according to  Configuration Management Plan):

Purpose of release	
External SP Release	X

1.2 Intended Audience

The specifications part of this Release are intended to any Railway Actor for its own purpose, knowing that they are submitted to the copyrights and the disclaimer inserted at at the top of the present document (and of any of the provided specifications).

1.3 Document Context

The System Pillar is the “generic system integrator” for the Europe’s Rail Joint Undertaking (EU-Rail), and the architect of the future EU’s railway system. For more information, see EU-RAIL website: <https://rail-research.europa.eu/>

This Release Note describes an external delivery from System Pillar Task 2 covering one domain: Security.

1.4 Scope of this document

This Release Notes describes an (internal or external) delivery from **System Pillar**. The System Pillar is the “generic system integrator” for the Europe’s Rail Joint Undertaking (**EU-Rail**), and the architect of the future EU’s railway system. For more information, see [ERJU System Pillar website](#)

This release includes several updated and new documents. Content which belongs to the specification in strict sense is being prepared in a systematic engineering approach.

1.5 Restrictions of use

The Cybersecurity specification have following restrictions:

- Compliance tracing to IEC PT 63452 uses an intermediate draft version from Jan 2025. The final standard is expected to be released end of 2026. The Cybersecurity specification will be updated once the standard is finalised.
- For EU CRA regulation (Cyber Resilience Act), harmonised standards are being developed. Once draft and final version will be available, an update of the Cybersecurity specification is foreseen.
- Cybersecurity certification aspects and EU CE conformity requirements are not included in this version of the specifications. This aspect will be investigated in future work of the Cybersecurity domain.

1.6 Configuration database (mandatory)

The Cybersecurity specification delivery documents are located in Polarion (SP-PRAMSS - 62 Security - 20 Deliverables)

Polarion SP-PRAMS - SP Cybersecurity Domain - Deliverables

1.7 Legal information and feedbacks

The release is delivered under the above copyright information.

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2 Release content

As the previous release, this release is implementing the requirements from EU regulations and directives (NIS2, CSA, CRA, RED) and international standards (ISO 27001, IEC 62443, CENELEC TS 50701 / IEC PT 63452). This simplifies achieving compliance to these standards significantly. The requirements are implemented by four main specifications (Secure Component Specification, Secure Communication Specification, Shared Cybersecurity Services Specification, Secure Program Requirements) and nine supporting documents

2.1 Documents addressed by the release

The documents covered by this release are:

Capability name	Change (new modified unchanged)	Comment
Secure Component Specification	modified	V1.1
Secure Communication Specification	modified	V1.1
Shared Cybersecurity Specification	modified	V1.1
Secure Program Requirements	modified	V1.1
Regulatory Compliance Tracing	modified	V1.1
System Description	modified	V1.1
Support for essential functions	modified	V1.1
Initial Risk assessment	modified	V1.1
Threat catalog	modified	V1.1
Product Documentation Template	modified	V1.1
Taxonomy & References	modified	V1.1
Detailed Risk Assessment	new	V1.1
Migration Guideline	new	V1.1











2.2 Main enhancements from the previous release






























This release contains mostly error corrections and general improvements. Furthermore, it includes two new documents: the Detailed Risk Assessment and the Migration Guideline. In total, the Security domain processed 123 change requests:

- 103 were implemented in this release (27 editorial, 49 clarifications, 9 new functions, 18 error corrections)
- 20 were postponed to the next release

This release contains PDF files (in "Diffs to 1.0" folder) to help tracing the actual changes. Deletions are shown in red, additions in green.

2.3 Configuration items

Document Status	Document ID	Document Name	Name of Document Baseline in Polarion
 Released	SP-SEC-DetRiskAss	 Detailed Risk Assessment	851566 -  Version 1.1 - Released
 Released	SP-SEC-InitRiskAss	 Initial Risk Assessment	851568 -  Version 1.1 - Released
 Released	SP-SEC-MigGuide	 Migration Guideline	851570 -  Version 1.1 - Released
 Released	SP-SEC-PrdDocTpl		

Document Status	Document ID	Document Name	Name of Document Baseline in Polarion
		 Product Documentation Template	851571 -  Version 1.1 - Released
 Released	SP-SEC-RegCompl	 Regulatory Compliance	851572 -  Version 1.1 - Released
 Released	SP-SEC-CommSpec	 Secure Communication Specification	851557 -  Version 1.1 - Released
 Released	SP-SEC-CompSpec	 Secure Component Specification	851559 -  Version 1.1 - Released
 Released	SP-SEC-PrgmReq	 Security Program Requirements	851563 -  Version 1.1 - Released
 Released	SP-SEC-ServSpec	 Shared Cybersecurity Services Specification	851564 -  Version 1.1 - Released
 Released	SP-SEC-SuppEssFunc	 Support for Essential Functions	851573 -  Version 1.1 - Released
 Released	SP-SEC-SysDesc	 System Description	851575 -  Version 1.1 - Released
 Released	SP-SEC-Taxonomy-References	 Taxonomy and References	851577 -  Version 1.1 - Released
 Released	SP-SEC-ThreatCat	 Threat Catalogue	851578 -  Version 1.1 - Released

2.4 More information

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3 Problems Fixed (mandatory)

All problems identified during the change request process were addressed.

4 Known open problems, issues

This specification does not include a solution for expired signer certificates. A solution is currently being discussed and will be included in the next release.

This release does not define how to handle security incidents. A guideline will be added in the next release.

This release does not specify the onboard security architecture (see [SP-SEC-Serv-3.4]). The Shared Cybersecurity Services specification will be updated in the next release.