




ERJU SYSTEM PILLAR

Template - System Concept



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1 Preamble

1.1 Purpose

This document describes the System Concept as required per EN 50126-1 phase 1 (concept) in  SPPRAMSS-349 - [EN 50126-1:2017] for the *system under consideration*.

1.2 Intended Audience

Note to author: This section shall describe the intended audience for this document.

1.3 Document Context

Note to author: This section shall describe the document context for this document

1.4 Glossary

1.4.1 Terms

No references

1.4.2 Abbreviations

2 System Concept

2.1 Project context of the system under consideration

Present the context of the system under consideration. Either new text can be developed here or some sections from existing document can be used as references here. Basically, this section should answer the question "why do we need the development of the system under consideration". The problems, threats or opportunities which could lead to the new or modified system may be described here.

This section should also present all previous national/international projects used as legacy for the current development of the system under consideration.

2.2 Scope of the system under consideration

Answer the question; what is the frame of the system under consideration? It is very important to define both:

- *What is be under consideration by the system under consideration,*
- *What is not under consideration by the system under consideration. This is to avoid grey areas where we may have no domain covering it or redundant activities between domains.*

2.3 Purpose of the system under consideration

Answer the last question; what is realised by the system under consideration?


The system's life cycle can be briefly described here.

2.4 Environment of the system under consideration

2.4.1 Physical issues

Provide here all known physical issues or expectations applicable to the system under consideration. This covers (not exhaustive):


- *Environmental issues: are there specific climatic, EMC conditions relevant for the system under consideration?*
- *Topology: will the system under consideration support centralised and or decentralised system topologies?*
- *Software / Hardware dependencies: shall the system under consideration be a "SW" only solution? Is it expected for the system under consideration to be the lowest possible SW-to-HW-dependent to decouple development lifecycles?*

This part will be addressed in the chapter dedicated to  SPPR-8040 - Mission profiles of the System . The goal of this chapter is to define the objective, constraints, expectations that will need to be considered for the system definition (i.e. "problem space", not "solution space").

2.4.2 System interface issues

Provide here all known interface issues or expectations applicable to the system under consideration. This covers (not exhaustive):




- *Identify if new standardised interfaces are required for the system under consideration (i.e. to reach modularity)*
- *Identify all existing standardised interfaces applicable to the system under consideration.*

This part will be addressed in the chapter dedicated to  SPPR-8052 - System interfaces. The goal of this chapter is to define the objective, constraints, expectations that will need to be considered for the system definition (i.e. "problem space", not "solution space").

2.4.3 Legislative and economic issues

This information is general so therefore, include link to the System Pillar management plan.

2.5 PRAMS legacy




Present the PRAMS (Performance RAM and Safety) legacy applicable to the system under consideration if any based on similar or related systems. For instance, new systems should be developed according to  SPPRAMSS-328 - [TSI CCS + (EU) 2023/1695] and its related subsets (e.g.  SPPRAMSS-324 - [SUBSET-026],  SPPRAMSS-325 - [SUBSET-091]). When no such legacy exists, it shall be mentioned here.

The distinction can be done (if relevant) between:

- *Previous systems: is the system under consideration intended to replace an obsolete system?*
- *Similar systems: is the system under consideration having a similar environment, scope, functionalities compared to a similar system?*

2.6 PRAMS policy and targets

This part is under development by the PRAMS team and will be applicable to all SP Domains for the development of their safety activities. Please refer to (not exhaustive nor finished during SC2.3)) in the SPPRAMS/Phase 1/ERJU - PRAMS - System Concept : 722384:

-  SPPRAMSS-4332 - Policy and strategy for achieving Safety
-  SPPRAMSS-26 - Current PRAMS Policy and Targets
-  ERJU Safety Guideline

2.7 Safety legislation

This section is already filled in the SPPRAMS/Phase 1/ERJU - PRAMS - System Concept : 722384. Unless additional standards are required, there is no need for each domain to fill it. Please just refer to the mentioned document and the dedicated chapter.

Note: The SPPRAMS/Phase 1/ERJU - PRAMS - System Concept : 722384 is valid and applicable to multiple domains and is referenced here in this template to link and inherit the specific contents.

3 Appendix

Note to author: Put here references to applicable input documents, standards or regulations.

3.1 Input documents

3.2 Standards and references

4 Open points and tasks for this template