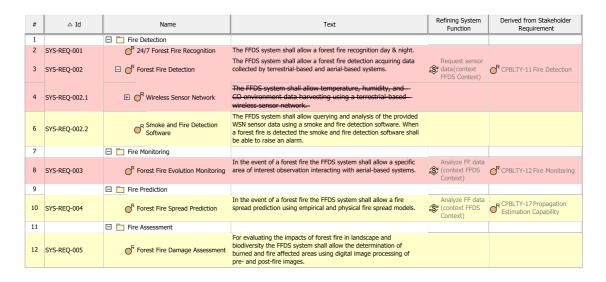
System Requirement Viewpoint

Domain: Functional Aspect: Requirement

Example



Purpose

The System Requirement Viewpoint specifies function(s), non-functional property(s), or constraint(s) of the system. System Requirement(s) are captured, the interrelationships between functional and non-functional requirement(s) on the same level of abstraction and the traceability to Stakeholder Requirement(s) are depicted.

Applicability

The System Requirement Viewpoint supports the "System Requirements Definition Process" activities of the INCOSE SYSTEMS ENGINEERING HANDBOOK 2015 [§4.3] and contributes to the system requirements verification and traceability matrix (RVTM). Note:

Stakeholder

- Customer
- Project Manager
- Regulation Authority
- Safety Expert
- Security Expert
- System Architect

Concern

- What are the interface requirements regarding bandwidth, data throughput and latency?
- What are the Functional Requirements imposed on the system!?
- What are the Requirements of environmental conditions imposed on the system?
- What are the Exchange Requirements imposed on the system?
- What are the Non-Functional Requirements imposed on the system?
- What is the range of acceptable system performance, i.e. the critical, top-level Performance Requirements derived from the Operational Needs?
- What are the Interface Requirements imposed on the system?

Presentation

A System Requirement Table (RVTM) featuring

- unique requirement ID, text and attributes
- · traceability reference to upstream model elements and requirements
- · traceability reference to depended requirement(s) on the same abstraction level

Profile Model Reference

- SAF SFV06a View
- SAF StakeholderRequirement
- SAF SystemFunctionalRequirement
- SAF SystemFunctionalRequirementConstraint
- SAF_SystemNonFunctionalRequirement
- SAF SystemRequirement
- SAF SystemRequirementDerivation
- SAF SystemRequirementDerivation

Input from other Viewpoints

Required Viewpoints

Stakeholder Requirement Viewpoint

Recommended Viewpoints

- Operational Story Viewpoint
- Operational Context Exchange Viewpoint
- Operational Capability Viewpoint
- Operational Process Viewpoint
- Operational Interaction Viewpoint
- Operational Capability Traceability Viewpoint
- · Operational Process Traceability Viewpoint