




SAF User Documentation : System Requirement Traceability Viewpoint

Domain	Aspect	Maturity
Functional	Traceability & Mapping	 released

Example

Legend

- SAF_SystemFunctionalRequirementRefinement
- SAF_SystemRequirementDerivation

	Detect and Report Fire (context FFDS_)	Request sensor data (context FFDS Cont-...)	Analyze FF data (context FFDS Cont-...)	StakeholderRequirement [CONOPS_	Capability [CEO FFDS Vendor]	R CPBLTY-11 Fire Detection	R CPBLTY-12 Fire Monitoring	Capability [Fire Operations Expe	R CPBLTY-25 Propagation Estimati...
FFDS_Requirement		1	2			1	1		1
Fire Detection		1				1			
... SYS-REQ-002 Forest Fire Detection	1	SAF_SystemFunctionalRequirementRefinement		1	1	SAF_SystemRequirementDerivation			
Fire Monitoring			1				1		
... SYS-REQ-003 Forest Fire Evolution Monitoring	1	SAF_SystemFunctionalRequirementRefinement		1	1	SAF_SystemRequirementDerivation			
Fire Prediction			1						1
... SYS-REQ-004 Forest Fire Spread Prediction	1	SAF_SystemFunctionalRequirementRefinement		1				1	SAF_SystemRequirementDerivation

Purpose

The System Requirement Traceability Viewpoint specifies for every System Requirement the traceability to the functional domain level

- System Use Case
- System Capability
- System Context Definition
- System Context Exchange
- System Context Interaction
- System Process

- [System State](#)

Applicability

The System Requirement Traceability Viewpoint supports the "System Requirements Definition Process" activities of the INCOSE SYSTEMS ENGINEERING HANDBOOK 2015 [§4.3] and contributes to the System Requirements Traceability. The System Requirement Traceability Viewpoint also contributes to the System Requirements Verification and Traceability Matrix (RVTM).

Stakeholder

- [Project Manager](#)

Concern

- What is the rationale for this system requirement?
- Which Stakeholder Requirements are addressed by System Requirements?
- Which system interface is addressed by a system requirement?

Presentation

A dependency matrix featuring relationships for every System Requirement to the functional domain level

- System Use Case
- System Capability
- System Context Definition
- System Context Exchange
- System Context Interaction
- System Process
- System State

Profile Model Reference

The following Stereotypes / Model Elements are used in the Viewpoint:

- [SAF_SFV08b_View](#)
- [SAF_SystemFunctionalRequirement](#)
- [SAF_SystemFunctionalRequirementConstraint](#)
- [SAF_SystemFunctionalRequirementRefinement](#)
- [SAF_SystemNonFunctionalRequirement](#)
- [SAF_SystemRequirement](#)
- [SAF_SystemRequirementDerivation](#)
- [SAF_SystemRequirementDerivation](#)
- [SAF_SystemRequirementRefinement](#)

- [SAF_SystemRequirementRefinement](#)
- [SAF_SystemRequirementRefinement](#)

Input from other Viewpoints

Required Viewpoints

- [Stakeholder Requirement Viewpoint](#)
- [System Requirement Viewpoint](#)

Recommended Viewpoints

- [System Use Case Viewpoint](#)
- [System Capability Viewpoint](#)
- [System Context Exchange Viewpoint](#)
- [System Context Interaction Viewpoint](#)
- [System Process Viewpoint](#)
- [System Functional Refinement Viewpoint](#)
- [System State Viewpoint](#)