






SAF User Documentation : System Requirement Traceability Viewpoint

Domain	Aspect	Maturity
Functional	Traceability & Mapping	 released

Example

Legend														
 SAF_SystemFunctionalRequirementRefinement														
 SAF_SystemRequirementDerivation														
		<div><div> Detect and Report Fire (context FFDS)</div><div> Request sensor data (context FFDS)</div><div> Analyze FF data (context FFDS)</div><div> Alert fire (context FFDS)</div><div> Retrieve sensor data (context FFDS)</div><div> Provide Sensor Data (context FFDS)</div><div> StakeholderRequirement [CONOPS_Vendor]</div><div> Capability [CEO FFDS Vendor]</div><div> CPBLTY-11 Fire Detection</div><div> CPBLTY-12 Fire Monitoring</div><div> Capability [Fire Operations Experience]</div><div> CPBLTY-25 Propagation Estimation</div></div>												
	FFDS_Requirement													
	Fire Detection													
	SYS-REQ-002 Forest Fire Detection	3						1	1					
	SYS-REQ-002.1 Smoke and Fire Detection	1												
	SYS-REQ-002.2 Smoke and Fire Alert	1												
	Fire Monitoring			1							1			
	SYS-REQ-003 Forest Fire Evolution Monitoring	1						1	1					
	Fire Prediction			1									1	
	SYS-REQ-004 Forest Fire Spread Prediction	1						1				1		

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](#)