



























SAF User Documentation : System Requirement Traceability Viewpoint

Domain	Aspect	Maturity
Functional	Traceability & Mapping	 released

Example

Legend											
 SAF_SystemFunctionalRequirementRefinement											
 SAF_SystemRequirementDerivation											
		<div> Detect and Report Fire (context FFDS)</div>									
		<div> Request sensor data (context FFDS)</div>									
		<div> Analyze FF data (context FFDS)</div>									
		<div> Stakeholder Requirement [CONOPS]</div>									
		<div> Capability [CEO FFDS Vendor]</div>									
		<div> CPBLTY-11 Fire Detection</div>									
		<div> CPBLTY-12 Fire Monitoring</div>									
		<div> Capability [Fire Operations Expe]</div>									
		<div> CPBLTY-25 Propagation Estimati</div>									

 FFDS_Requirement											
 Fire Detection											
 SYS-REQ-002 Forest Fire Detection											
 Fire Monitoring											
 SYS-REQ-003 Forest Fire Evolution Monitoring											
 Fire Prediction											
 SYS-REQ-004 Forest Fire Spread Prediction											

		1	2					1	1		1
		1						1			
	1			1	1						
			1					1			
	1			1	1						
			1								1
	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](#)