

SAF User Documentation : F8_SRQT System Requirement Traceability Viewpoint

Domain	Aspect	Maturity
Functional	Traceability & Mapping	 released

Example

Legend		 SAF_SystemFunctionalRequirementRefinement					
		Detect and Report Fire(context FF)	Request sensor data(context FFD)	Analyze FF data(context FFDS Co)	Alert fire(context FFDS Context)	Retrieve sensor data(context FFD)	Provide Sensor Data(context FFD)
FFDS_Requirement		1	2	1	1	2	
Fire Detection		1		1	1	2	
 SYS-REQ-002 Forest Fire Detection		3					
 SYS-REQ-002.1 Smoke and Fire Detection		1					
 SYS-REQ-002.2 Smoke and Fire Alert		1					
Fire Monitoring				1			
 SYS-REQ-003 Forest Fire Evolution Monitoring		1					
Fire Prediction				1			
 SYS-REQ-004 Forest Fire Spread Prediction		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).

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

Stakeholder

- [Project Manager](#)

Concern

- [What is the rationale for a system requirement?](#)
- [Which System Requirements are derived from Stakeholder Requirements?](#)
- [Which system interface is addressed by a system requirement?](#)

Profile Model Reference

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

- [SAF_F8_SRQT](#)
- [SAF_SystemFunctionalRequirementConstraint](#)
- [SAF_SystemFunctionalRequirementRefinement](#)
- [SAF_SystemFunctionalRequirement](#)
- [SAF_SystemNonFunctionalRequirement](#)
- [SAF_SystemRequirementDerivation](#)
- [SAF_SystemRequirementRefinement](#)
- [SAF_SystemRequirement](#)

Input from other Viewpoints

Required Viewpoints

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

Recommended Viewpoints

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