



























# 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)									
		 Analyze FF data (context FFDS)									
		 Stakeholder Requirement [CONOPS]									
		 Capability [CEO FFDS Vendor]									
		 CPBLTY-11 Fire Detection									
		 CPBLTY-12 Fire Monitoring									
		 Capability [Fire Operations Expe]									
		 CPBLTY-25 Propagation Estimati									
 FFDS_Requirement			1	2				1	1		1
 Fire Detection			1					1			
 SYS-REQ-002 Forest Fire Detection		1			1	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

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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

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- [Project Manager](#)

## Concern

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- 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

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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

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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

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### 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](#)