



SAF User Documentation : System Requirement Traceability Viewpoint

| Domain | Aspect | Maturity |
|------------|------------------------|--------------|
| Functional | Traceability & Mapping | released |

Example

| Legend | | | | | | | | |
|--|---|---|---|---|---|---|---|---|
| | SAF_SystemFunctionalRequirementRefinement | | | | | | | |
| | SAF_SystemRequirementDerivation | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| FFDS_Requirement | | | 1 | 2 | | 1 | 1 | 1 |
| Fire Detection | | | 1 | | | 1 | | |
| ... R SYS-REQ-002 Forest Fire Detection | | 1 | | | 1 | 1 | | |
| Fire Monitoring | | | | 1 | | | 1 | |
| ... R SYS-REQ-003 Forest Fire Evolution Monitoring | | 1 | | | 1 | 1 | | |
| Fire Prediction | | | | 1 | | | | 1 |
| ... R SYS-REQ-004 Forest Fire Spread Prediction | | 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 System Requirement 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

- [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](#)