




# SAF User Documentation : System Requirement Traceability Viewpoint

| Domain     | Aspect                 | Maturity  |
|------------|------------------------|---|
| Functional | Traceability & Mapping | <br>released |

## Example

**Legend**

- SAF\_SystemFunctionalRequirementRefinement
- SAF\_SystemRequirementDerivation

|  | Detect and Report Fire (context FFDS) | Request sensor data (context FFDS)        | Analyze FF data (context FFDS)            | StakeholderRequirement [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                                     | SAF_SystemFunctionalRequirementRefinement |   | 1  | 1                        | SAF_SystemRequirementDerivation |                                  |                                 |
| Fire Monitoring                                  |                                       |   | 1   |  |                          | 1                               |                                  |                                 |
| ... SYS-REQ-003 Forest Fire Evolution Monitoring | 1                                     |   | SAF_SystemFunctionalRequirementRefinement | 1  | 1                        | SAF_SystemRequirementDerivation |                                  |                                 |
| Fire Prediction                                  |                                       |   | 1   |  |                          |                                 |                                  | 1                               |
| ... SYS-REQ-004 Forest Fire Spread Prediction    | 1                                     |   | SAF_SystemFunctionalRequirementRefinement | 1  |                          |                                 | 1                                | SAF_SystemRequirementDerivation |

## 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 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

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- [SAF\\_SFV08a\\_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](#)