


## SAF User Documentation : F6\_SRQD System Requirement Definition Viewpoint

Domain	Aspect	Maturity
Functional	Requirement	 released

### Example

#	Id	Name	Applied Stereotype	Text	Requirement Derived FROM	Source
1		Fire Detection				
2	SYS-REQ-001	24/7 Forest Fire Detection	SAF_SystemFunctionalRequirement [Class]	The FFDS system shall allow a forest fire detection day & night.		SDS
3	SYS-REQ-002	Forest Fire Detection	SAF_SystemFunctionalRequirement	The FFDS system shall allow a forest fire	CPBLTY-11 Fire Detect...	SDS
4	SYS-REQ-002.1	Smoke and Fire	SAF_SystemFunctionalRequirement	The FFDS system shall allow to detect		SDS
5	SYS-REQ-002.2	Smoke and Fire	SAF_SystemFunctionalRequirement	When a forest fire is detected, the FFDS		SDS
6		Fire Prediction				
7	SYS-REQ-004	Forest Fire Spread	SAF_SystemFunctionalRequirement	In the event of a forest fire, the FFDS	CPBLTY-25 Propagati...	SDS
8		Fire Assessment				
9	SYS-REQ-005	Forest Fire Damage	SAF_SystemFunctionalRequirement	For evaluating the impacts of forest fire in		SDS
10		Fire Monitoring				
11	SYS-REQ-003	Forest Fire Evolution	SAF_SystemFunctionalRequirement	In the event of a forest fire, the FFDS	CPBLTY-12 Fire Monit...	SDS

### Purpose

The System Requirement Definition Viewpoint specifies functions, non-functional properties, or constraints of the System. System Requirements are captured, the interrelationships between Functional and Non-Functional Requirements on the same level of abstraction and the traceability to Stakeholder Requirements are depicted.

### Applicability

The System Requirement Definition Viewpoint supports the "System Requirements Definition Process" activities of the INCOSE SYSTEMS ENGINEERING HANDBOOK 2015 [§4.3] and contributes to the System Requirements Verification and Traceability Matrix (RVTM).

### Presentation

A tabular format listing

- unique requirement ID, text, and attributes,
- traceability reference to Stakeholder Requirements,
- traceability reference to depended Requirements on the same level of abstraction.

## Stakeholder

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- [Hardware Developer](#)
- [IV&V Engineer](#)
- [Project Manager](#)
- [Software Developer](#)
- [System Architect](#)

## Concern

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- [What are the exchange requirements imposed on the system?](#)
- [What are the functional requirements imposed on the system?](#)
- [What are the non-functional requirements imposed on the system?](#)
- [What are the requirements of environmental conditions imposed on the system?](#)
- [What is the range of acceptable system performance, i.e. the critical, top-level performance requirements derived from the operational needs?](#)
- [Which System Requirements are derived from Stakeholder Requirements?](#)
- [Which are the interface requirements imposed on the system?](#)

## Profile Model Reference

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

- [SAF\\_F6\\_SRQD](#)
- [SAF\\_StakeholderRequirement](#)
- [SAF\\_SystemFunctionalRequirementConstraint](#)
- [SAF\\_SystemFunctionalRequirement](#)
- [SAF\\_SystemNonFunctionalRequirement](#)
- [SAF\\_SystemRequirementDerivation](#)
- [SAF\\_SystemRequirement](#)

## Input from other Viewpoints

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### Required Viewpoints

- [Stakeholder Requirement Definition Viewpoint](#)

### Recommended Viewpoints

- [Operational Story Viewpoint](#)
- [Operational Context Exchange Viewpoint](#)
- [Operational Capability Definition Viewpoint](#)
- [Operational Process Viewpoint](#)

- Operational Context Interaction Viewpoint
- Operational Capability Mapping Viewpoint
- Operational Process Mapping Viewpoint