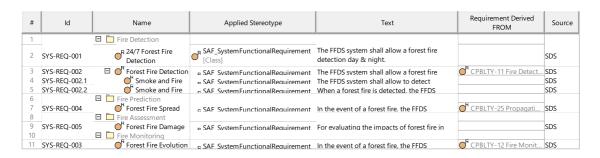


# SAF User Documentation: F6\_SRQD System Requirement Definition Viewpoint

Domain	Aspect	Maturity
Functional	Requirement	released

## **Example**



## **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

- Hardware Developer
- IV&V Engineer
- Project Manager
- Software Developer
- System Architect

#### Concern

- 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**

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

- SAF\_F6\_SRQD\_Table
- SAF\_StakeholderRequirement
- SAF SystemFunctionalRequirementConstraint
- SAF SystemFunctionalRequirement
- SAF\_SystemNonFunctionalRequirement
- · SAF SystemRequirementDerivation
- SAF SystemRequirement

## Input from other Viewpoints

## **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