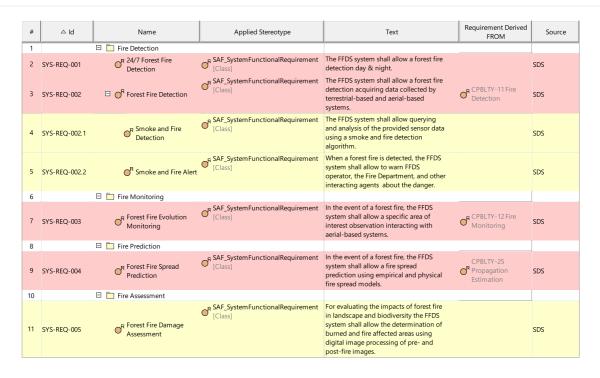


# SAF User Documentation : System Requirement Viewpoint

Domain	Aspect	Maturity
Functional	Requirement	released

### **Example**



# **Purpose**

The System Requirement 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 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).

#### Stakeholder

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

#### Concern

- What are the Interface Requirements imposed on the system?
- · 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 Stakeholder Requirements are addressed by System Requirements?

#### **Presentation**

A System Requirement Table (RVTM), a tabular format, featuring

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

#### **Profile Model Reference**

- SAF\_SFV06a\_View
- SAF StakeholderRequirement
- SAF SystemFunctionalRequirement
- SAF\_SystemFunctionalRequirementConstraint
- SAF\_SystemNonFunctionalRequirement
- SAF\_SystemRequirement
- SAF\_SystemRequirementDerivation
- SAF\_SystemRequirementDerivation

# Input from other Viewpoints

## **Required Viewpoints**

• Stakeholder Requirement Viewpoint

## **Recommended Viewpoints**

- Operational Story Viewpoint
- Operational Context Exchange Viewpoint
- Operational Capability Viewpoint
- Operational Process Viewpoint
- Operational Interaction Viewpoint
- Operational Capability Traceability Viewpoint
- Operational Process Traceability Viewpoint