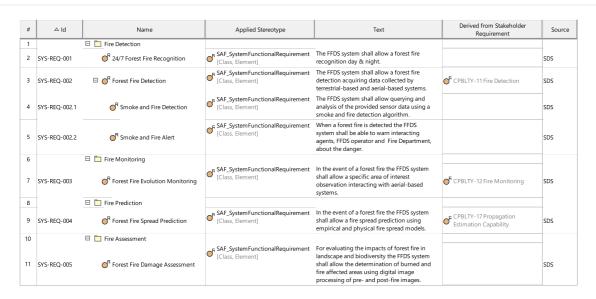


# **System Requirement Viewpoint**

Domain	Aspect	Maturity
Functional	Requirement	released

## **Example**



# **Purpose**

The System Requirement Viewpoint specifies functions, non-functional propertys, 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) featuring

- unique requirement ID, text and attributes
- traceability reference to upstream model elements and 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