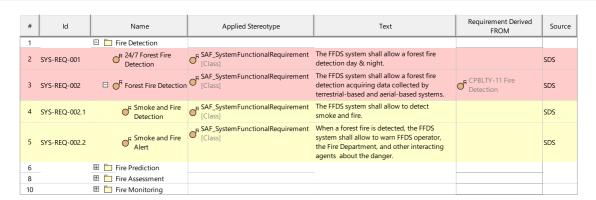


# SAF User Documentation : System Requirement Viewpoint

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 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.

#### **Profile Model Reference**

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

- 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 Mapping Viewpoint
- Operational Process Mapping Viewpoint