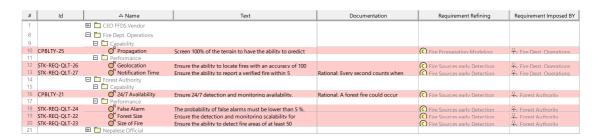


SAF User Documentation : O6_SKRD Stakeholder Requirement Definition Viewpoint

Domain	Aspect	Maturity
Operational	Requirement	released

Example



Purpose

The Stakeholder Requirement Definition Viewpoint specifies all capabilities, functions and properties, that the intended solution shall possess or expose from the perspective of the Stakeholders. The Stakeholder Requirement Definition Viewpoint also captures constraints for the system to be developed from stakeholders perspective.

Applicability

The Stakeholder Requirement Viewpoint supports the "Stakeholder Needs and Requirements Definition Process" activities of the INCOSE SYSTEMS ENGINEERING HANDBOOK 2015 [§ 4.2] and contributes to the identification of solution constraints.

Presentation

A tabular format lisiting

- unique requirement ID, text, and attributes,
- traceability reference to justifying model artefacts, e.g. operational stories, operational capabilities, identified concerns of stakeholders, and compliance statements Note: Stakeholder Requirements are to be structured in a way that the Stakeholder behind the Requirement is identifiable. When appropriate, the relationships between identified Stakeholder Requirements are and the justifying model artefacts,

Operational Story, Operational Capability, Operational Performer, Operational Process, and Operational Exchange are presented.

- "One Requirement Package for each Stakeholder" is a best-practice modeling rule. A package contains the Requirements specific for one Stakeholder.
- Even if different Stakeholders may have intersecting interests and / or concerns resulting in a similar set
 of Requirements, each Stakeholder shall have its own set managed in a dedicated Requirement
 Package. Requirements must not be shared due to their different life cycles. Resolving duplications and
 conflicts is subject of the requirement analysis resulting in an agreed and consolidated set of System
 Requirements.

Stakeholder

- Acquirer
- Customer
- System Architect

Concern

- What are the normal and extreme environmental conditions for normal operation, for not operational, for storage, and for transport?
- · What are the requirements of environmental conditions imposed on the system?
- What are the requirements that a Stakeholder imposes on the system?
- What defines a valid solution towards the customer?
- What is the range of acceptable system performance, i.e. the critical, top-level performance requirements derived from the operational needs?

Profile Model Reference

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

- Package [UML Standard Profile]
- SAF O6 SKRD Table
- SAF OperationalCapability
- SAF_StakeholderRequirementImposition
- SAF_StakeholderRequirementRefinement
- SAF StakeholderRequirement
- SAF Stakeholder
- SAF_SystemOfInterestConcern

Input from other Viewpoints

Required Viewpoints

• Stakeholder Identification Viewpoint

Recommended Viewpoints

- Operational Story Viewpoint
- Operational Performer Viewpoint