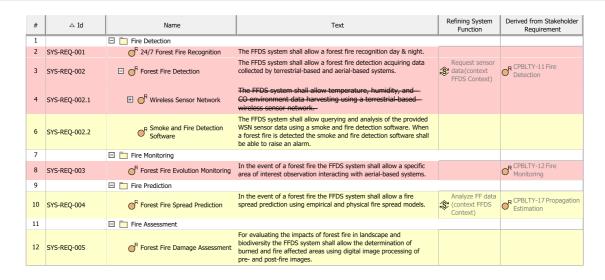
# **System Requirement Viewpoint**

Domain: Functional Aspect: Requirement

# **Example**



# **Purpose**

The System Requirement Viewpoint specifies function(s), non-functional property(s), or constraint(s) of the system. System Requirement(s) are captured, the interrelationships between functional and non-functional requirement(s) on the same level of abstraction and the traceability to Stakeholder Requirement(s) 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). Note:

### Stakeholder

- Customer
- Project Manager
- Regulation Authority
- Safety Expert
- Security Expert
- System Architect

#### Concern

- What are the interface requirements regarding bandwidth, data throughput and latency?
- What are the Functional Requirements imposed on the system!?
- What are the Requirements of environmental conditions imposed on the system?
- What are the Exchange Requirements imposed on the system?
- What are the Non-Functional Requirements 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?
- What are the Interface Requirements imposed on the system?

#### **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 requirement(s) 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