

SAF User Documentation : Operational Capability Mapping Viewpoint

Domain	Aspect	Maturity
Operational	Traceability & Mapping	 released

Example

#	Name	Applied Stereotype	Documentation	Capability Supporting	Capability Exhibited BY	Capability Enabled BY	Refining Stakeholder Requirement
1	 Safeguard People & Protect Property and Resources	 SAF_OperationalCapability [Class]	The Disaster Recovery Reform Act of 2018 (DRRA) - enacted after the devastation of the 2017 hurricane season and 2018 California wildfires - emphasizes the importance of capabilities-based planning. Specifically, DRRA requires Federal Emergency Management Agency (FEMA.gov) to "complete a national preparedness assessment of capability gaps at each level based on tiered, capability-specific performance objectives to enable prioritization of grant funding."				
2	 SAR Capability						
7	 FDN Capability						
8	 Fire Sources early Detection	 SAF_OperationalCapability [Class]	This operational capability demonstrates that the enterprise has the power of managing an effective surveillance network which allows to reduce the time between the ignition and the detection of the forest fire.				 STK-REQ-QLT-27 Notification Time  STK-REQ-QLT-26 Geolocation  STK-REQ-QLT-23 Size of Fire  STK-REQ-QLT-22 Forest Size  STK-REQ-QLT-24 False Alarm  CPBLTY-21 24/7 Availability
9	 Fire Propagation Modeling	 SAF_OperationalCapability [Class]	This operational capability demonstrates that the enterprise has the power of providing forest fire danger forecast for the coming hours.				 CPBLTY-25 Propagation Estimation
10	 Fire Event Management	 SAF_OperationalCapability [Class]	This operational capability demonstrates that the enterprise has the power of supporting tasks and time-critical decision processes in forest fire fighting situations.				 STK-REQ-QLT-29 Forest Size  CPBLTY-21 24/7 Availability

Purpose

The Operational Capability Mapping Viewpoint describes the relationships of Operational Capabilities. The reasoning for Operational Capabilities as support for Operational Stories and the contribution of Operational Processes to Capabilities are described. Operational Capabilities encoded in Stakeholder Requirements are identified.

Applicability

The Operational Capability Mapping Viewpoint supports the "Business or Mission Analysis Process" activities of the INCOSE SYSTEMS ENGINEERING HANDBOOK 2015 [§ 4.1] and contributes to the definition of Operational Capabilities.

Presentation

A tabular format listing the relationships of Operational Capabilities to Stakeholder Requirements, Operational Stories, and Operational Process Activities.

Stakeholder

- [Acquirer](#)
- [Customer](#)
- [Portfolio Manager](#)
- [System Architect](#)

Concern

- Show in a concise manner the relationships from operational capability to operational story, to operational activity, and to operational performer.

Profile Model Reference

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

- [SAF_OperationalCapabilityComposition](#)
- [SAF_OperationalCapabilityDependency](#)
- [SAF_OperationalCapabilityGeneralization](#)
- [SAF_OperationalCapabilitySupport](#)
- [SAF_OperationalCapability](#)
- [SAF_OperationalPerformerExhibit](#)
- [SAF_OperationalPerformer](#)
- [SAF_OperationalProcessEnabling](#)
- [SAF_OperationalProcess](#)
- [SAF_OperationalStory](#)
- [SAF_SOV08a_View](#)
- [SAF_StakeholderRequirementRefinement](#)
- [SAF_StakeholderRequirement](#)

Input from other Viewpoints

Required Viewpoints

- [Operational Capability Viewpoint](#)

Recommended Viewpoints

- [Operational Story Viewpoint](#)
- [Operational Process Viewpoint](#)