

































# SAF User Documentation : System Capability Mapping Viewpoint

Domain	Aspect	Maturity
Functional	Traceability & Mapping	 released

## Example

#	△ Name	Documentation	Capability Supporting	Capability Supported BY	Refining System Requirement
1	 Fire Alert Reporting	This capability demonstrates that the system has the power of [tbd]	 Detect and Report Fire	 Alert fire(context FFDS Context)	
2	 Fire Situation Analysis	This capability demonstrates that the system has the power of [tbd]	 Detect and Report Fire	 Manage Operator warning(context FFDS Context)	
3	 Fire Situation Reporting	This capability demonstrates that the system has the power of [tbd]	 Detect and Report Fire	 Analyze FF data(context FFDS Context)	
4	 Forest Fire aerial-based Data Acquisition	This capability demonstrates that the system has the power of [tbd]	 Detect and Report Fire		
5	 Forest Fire terrestrial-based Data Acquisition	This capability demonstrates that the system has the power of [tbd]	 Detect and Report Fire	 Provide Sensor Data(context FFDS Context)	
6	 Meteo Forecast Data Acquisition	This capability demonstrates that the system has the power of [tbd]	 Detect and Report Fire	 Retrieve sensor data(context FFDS Context)	
7	 Research Analysis Data Acquisition	This capability demonstrates that the system has the power of [tbd]	 Detect and Report Fire	 Request sensor data(context FFDS Context)	
8	 Resource Management	This capability demonstrates that the system has the power of [tbd]	 Add a Sensor Node  Ping a Sensor Node  Remove a Sensor Node	 Acquire metadata(context FFDS Context)	
9	 Satellite Image Data Acquisition	This capability demonstrates that the system has the power of [tbd]	 Detect and Report Fire		
10	 Test & Maintenance	This capability demonstrates that the system has the power of [tbd]	 Run Observation Test  Switch to Maintenance Mode  Switch to Test Mode		
11	 User Management	This capability demonstrates that the system has the power of [tbd]			

## Purpose

The System Capability Mapping Viewpoint describes the relationships of System Capabilities. The reasoning for System Capabilities as support for System Use Cases and the contribution of System Processes to Capabilities are described. Furthermore, the mapping of System Capabilities to Operational Capabilities are identified.

## Applicability

The System Capability Mapping Viewpoint supports the "Stakeholder Needs and Requirements Definition Process" and "System Requirements Definition Process" activities of the INCOSE SYSTEMS ENGINEERING HANDBOOK 2015 [§4.2 & §4.3] and contributes to the identification of System Functions, and definition of System Requirements.

## Presentation

A tabular format listing the relationships of System Capabilities to Operational Capabilities, System Use Cases, System Process Activities, and System Requirements.

## Stakeholder

---

## Concern

---

## Profile Model Reference

---

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

- [SAF\\_SFV08a\\_View](#)
- [SAF\\_StakeholderRequirement](#)
- [SAF\\_SystemCapabilityComposition](#)
- [SAF\\_SystemCapabilityDependency](#)
- [SAF\\_SystemCapabilityEnabling](#)
- [SAF\\_SystemCapabilityGeneralization](#)
- [SAF\\_SystemCapabilitySupport](#)
- [SAF\\_SystemCapability](#)
- [SAF\\_SystemFunctionSupport](#)
- [SAF\\_SystemFunction](#)
- [SAF\\_SystemProcessEnabling](#)
- [SAF\\_SystemProcess](#)
- [SAF\\_SystemRequirement](#)
- [SAF\\_SystemUseCase](#)

## Input from other Viewpoints

---

### Required Viewpoints

- [System Capability Viewpoint](#)

### Recommended Viewpoints

- [Operational Capability Viewpoint](#)
- [System Use Case Viewpoint](#)
- [System Process Viewpoint](#)