
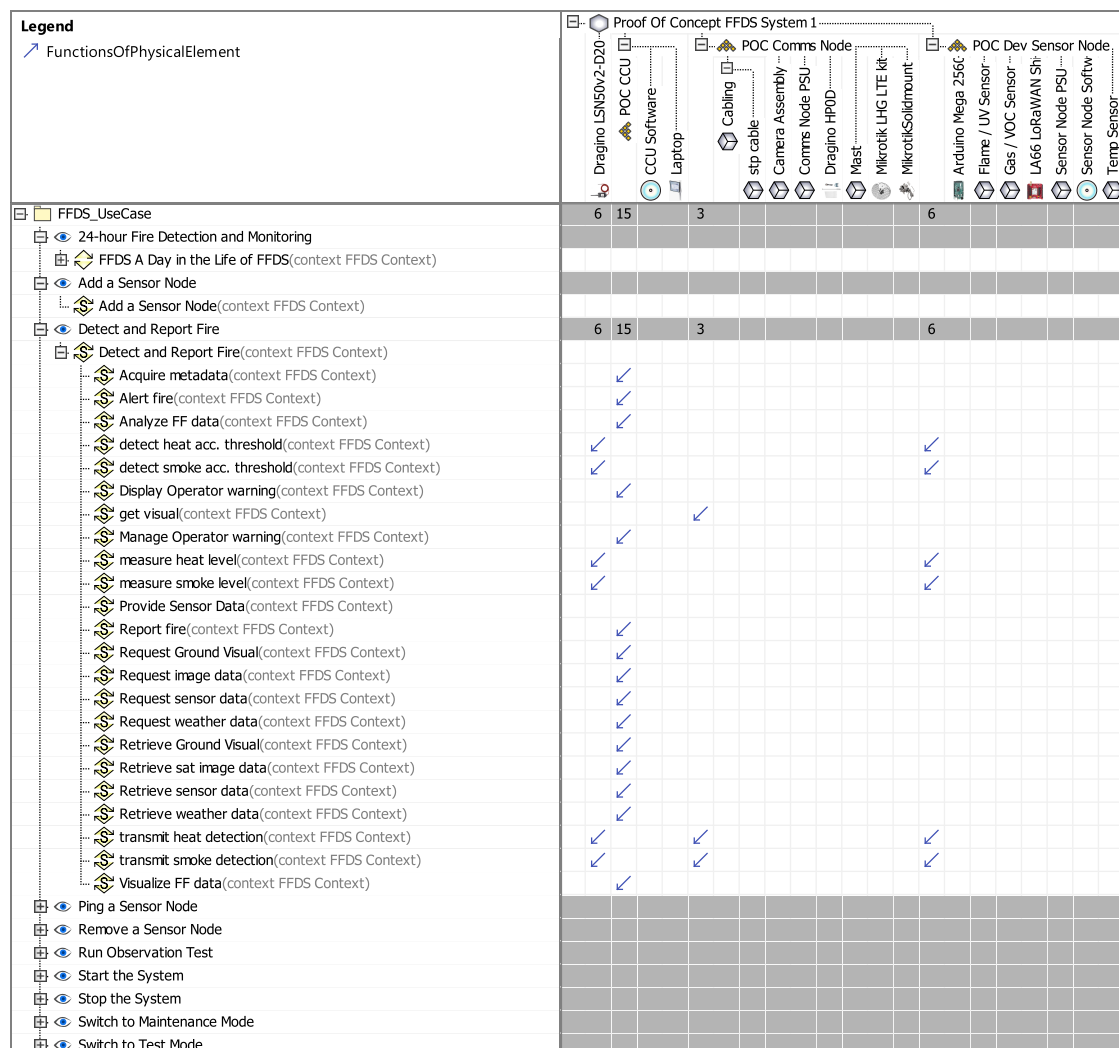




SAF User Documentation : P8_PFUM Physical Functional Mapping Viewpoint

Domain	Aspect	Maturity
Physical	Traceability & Mapping	 released

Example



Purpose

The Physical Functional Mapping Viewpoint supports the analysis of the assignment (it is a derived relationship) of system functions and system partial functions to physical SOI elements.

Applicability

The Physical Functional Mapping Viewpoint supports the "Design Definition Process" activities of the INCOSE SYSTEMS ENGINEERING HANDBOOK 2023 [§2.3.5.5] and contributes to the artifact "Traceability Mapping".

Furthermore, the Physical Functional Mapping Viewpoint supports the "Allocation and Partitioning of Functional Entities to Physical Entities" activities.

Presentation

A FBS_to_PBS mapping matrix featuring

- Functional Breakdown Structure (FBS)
- Physical Breakdown Structure (PBS)
- mapping (it is a derived relationship) from system functions and system partial functions to physical SOI elements

Stakeholder

- [Hardware Developer](#)
- [IV&V Engineer](#)
- [Mechanic Developer](#)
- [Software Developer](#)
- [System Architect](#)

Concern

- [What is the mapping of functions to the physical SOI physical architecture?](#)
- [Which system functions need to be tested in IV&V activities?](#)

Profile Model Reference

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

- Allocate [SysML Profile]
- Attribute "function" of SAF_PhysicalItem referencing SAF_SystemFunction
- [SAF_FunctionAction](#)
- [SAF_P8_PFUM](#)
- [SAF_PhysicalElement](#)
- [SAF_PhysicalHardwareElement](#)

- [SAF_PhysicalSoftwareElement](#)
- [SAF_SystemFunction](#)
- [SAF_SystemPartialFunction](#)

Input from other Viewpoints

Required Viewpoints

- [Logical Structure Definition Viewpoint](#)
- [Physical Structure Definition Viewpoint](#)
- [Logical Functional Mapping Viewpoint](#)

Recommended Viewpoints

- [System Functional Breakdown Structure Viewpoint](#)