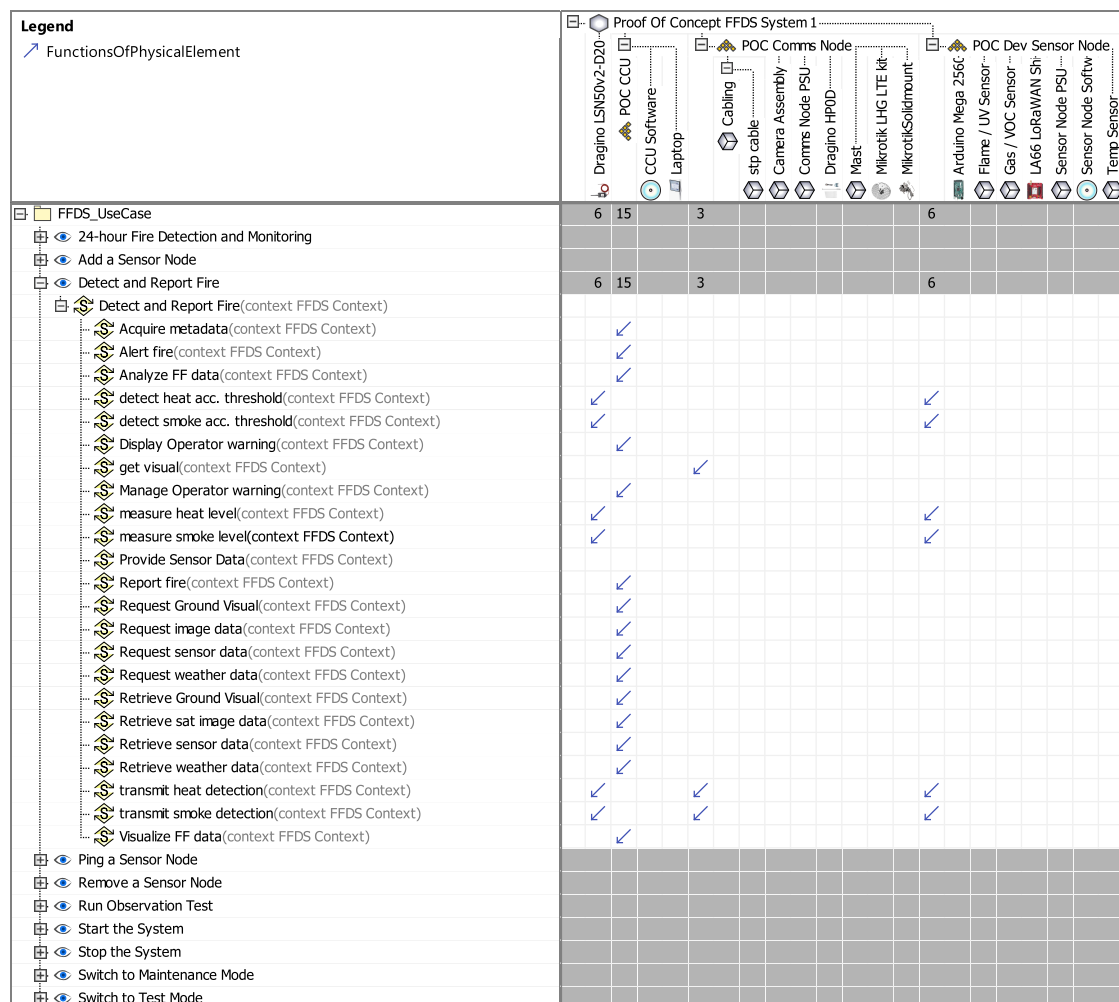


## SAF User Documentation : P8\_PFUM Physical Functional Mapping Viewpoint

Domain	Aspect	Maturity
Physical	Traceability & Mapping	 released

### Example



### Purpose

The Physical Functional Mapping Viewpoint supports the analysis of the assignment of system functions and system partial functions to physical system elements. The result shall be computed from the assignment of

functions to logical system elements and the assignment of logical system elements to physical system 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\\_P8\\_PFUM\\_Matrix](#)
- [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](#)