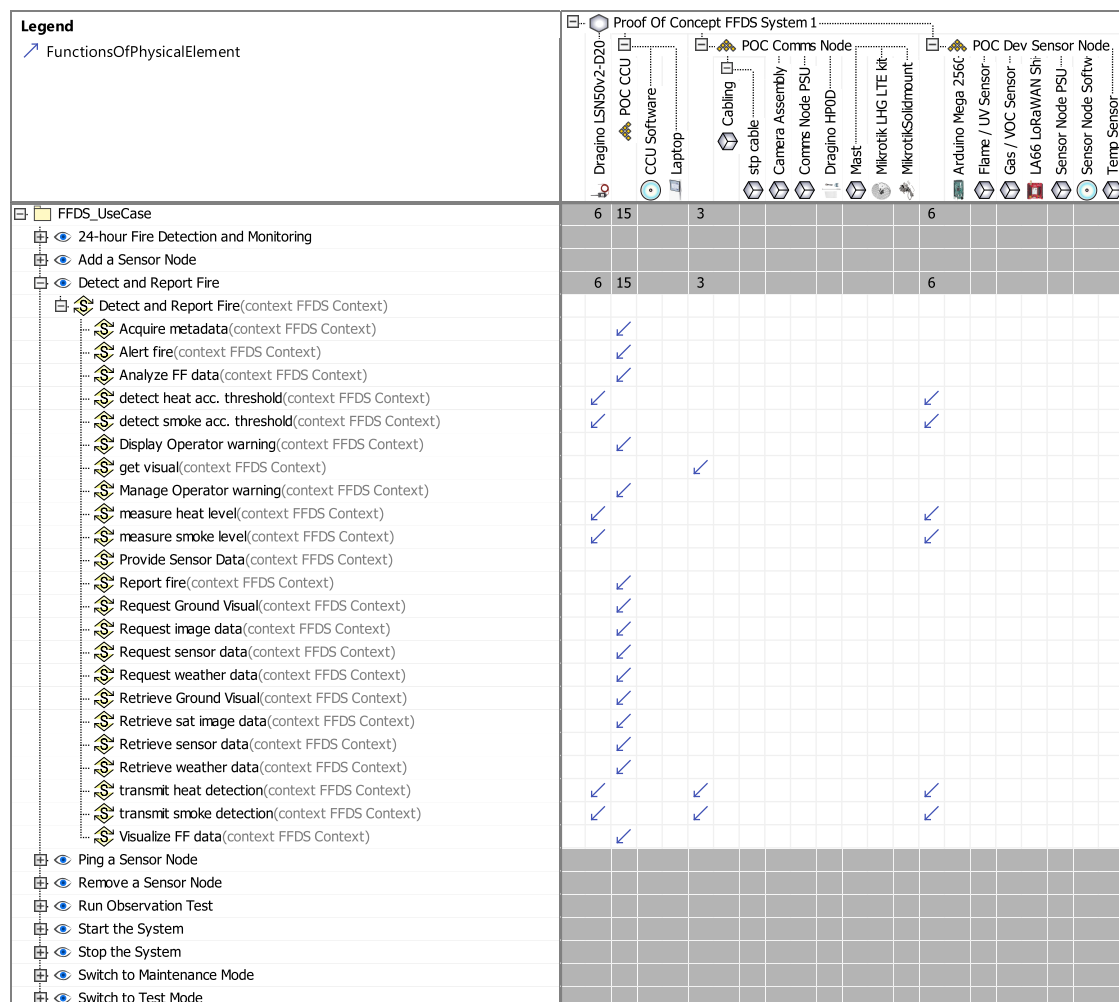


## SAF User Documentation : P8\_PFUM Physical Functional Mapping Viewpoint

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](#)