# SAF User Documentation : L8_LFUM Logical Functional Mapping Viewpoint

| Domain | Aspect | Maturity |
|--------|--------|----------|
| Logical | Traceability & Mapping | ✅ released |

## Example
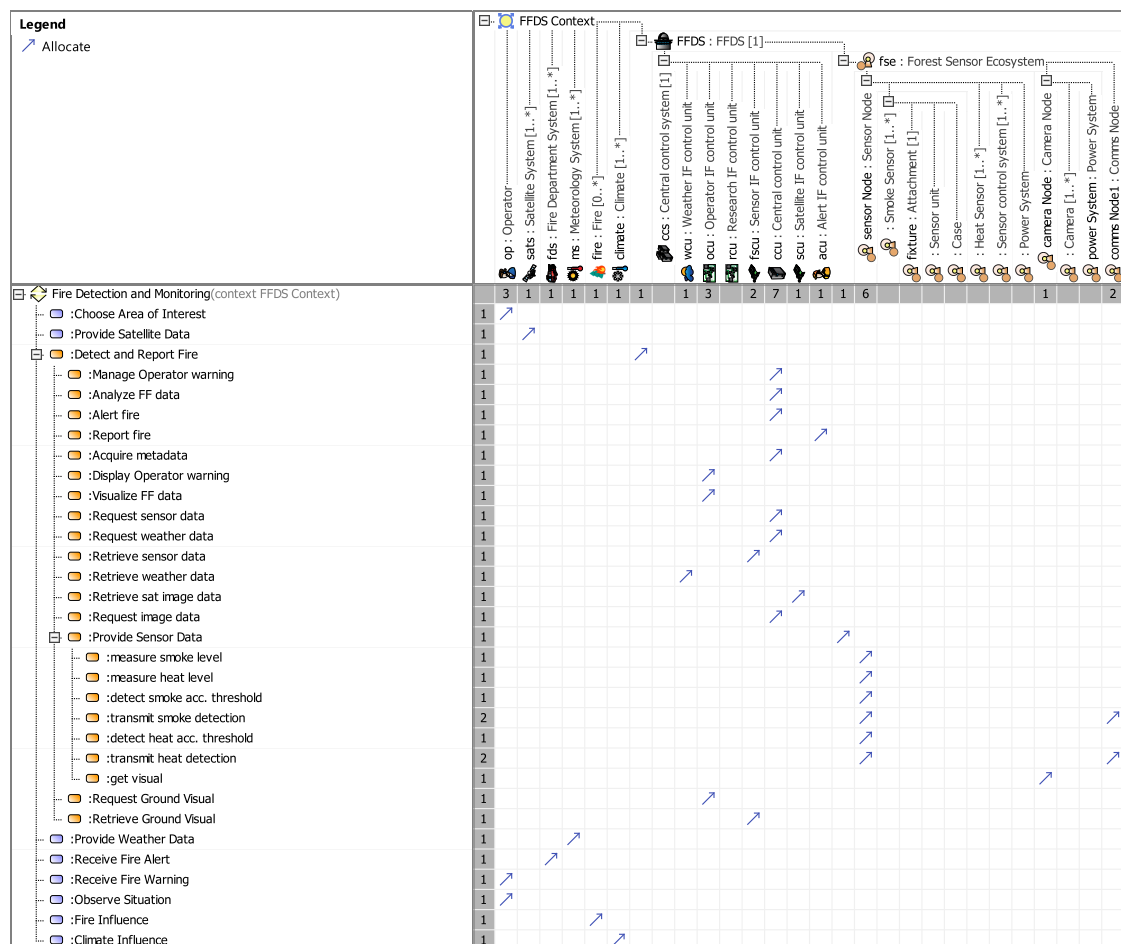


## Purpose

The Logical Functional Mapping Viewpoint supports the definition of assignment of system functions and system partial functions to logical system elements.

## Applicability

The Logical Functional Mapping Viewpoint supports the "System Architecture Definition Process" activities of the INCOSE SYSTEMS ENGINEERING HANDBOOK 2023 [§2.3.5.4] and contributes to the artifact "Traceability Mapping".

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

# Presentation

A FBS to LBS mapping matrix featuring

- Functional Breakdown Structure (FBS)
- Logical Breakdown Structure (LBS)
- Allocation from system functions and system partial functions to logical system elements

# Stakeholder

- Hardware Developer
- Software Developer
- System Architect

# Concern

- Which functions are allocated to which parts of the logical architecture?

# Profile Model Reference

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

- Allocate [SysML Profile]
- SAF_LogicalInternalRole contained in SAF_LogicalElement
- SAF_FunctionAction
- SAF_L8_LFUM_Matrix
- SAF_LogicalElement
- SAF_LogicalSOI
- SAF_SystemFunction
- SAF_SystemPartialFunction

# Input from other Viewpoints

## Required Viewpoints

- System Process Viewpoint
- System Functional Refinement Viewpoint

- Logical Structure Definition Viewpoint

## Recommended Viewpoints

- System Process Viewpoint
- System Functional Refinement Viewpoint