

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](#)