


SAF User Documentation : 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 conceptual 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 conceptual logical system elements

Stakeholder

- [Hardware Developer](#)
- [Software Developer](#)
- [System Architect](#)

Concern

- [Which functions are allocated to the logical SOI 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_LogicalElement](#)
- [SAF_LogicalSOI](#)
- [SAF_SLV08a_View](#)
- [SAF_SystemFunction](#)
- [SAF_SystemPartialFunction](#)

Input from other Viewpoints

Required Viewpoints

- [System Process Viewpoint](#)
- [System Functional Refinement Viewpoint](#)
- [Logical Structure Viewpoint](#)

Recommended Viewpoints

- [System Process Viewpoint](#)
- [System Functional Refinement Viewpoint](#)