# 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