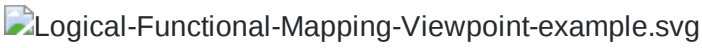
# SAF User Documentation : Logical Functional Mapping Viewpoint

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

## Example




## Purpose

The Logical Functional Mapping Viewpoint captures the assignment of the System Functions and the System Partial Functions to the Logical SOI and the Logical SOI Elements.

## Applicability

The Logical Function Mapping Viewpoint supports the "System Architecture Definition process" activities of the INCOSE SYSTEMS ENGINEERING HANDBOOK 2015 [§ 4.4] and contributes to the System Architecture description.

## Presentation

A dependency matrix featuring

- the call behavior action representing usage of System Functions or System Partial Functions,
- the part properties representing usage of Logical SOI Elements,
- the allocation relationship between above mentioned elements.

## Stakeholder

- Hardware Developer
- Software Developer
- System Architect

## Concern

- Which (system and system partial) functions are assigned to a logical item and logical item components? Note: if allocation of usage is used, then allocation of definition is a derived relationship XOR.

## Profile Model Reference

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

- Allocate [SysML Profile]
- SAF_FunctionAction
- SAF_LogicalElement
- SAF_LogicalInternalRole
- SAF_LogicalSOI
- SAF_SLV08a_View
- SAF_SystemFunction
- SAF_SystemPartialFunction

## Input from other Viewpoints

### Required Viewpoints

- Logical Structure Viewpoint
- System Process Viewpoint
- System Functional Refinement Viewpoint

### Recommended Viewpoints

- System Domain Item Kind Viewpoint