




# SAF User Documentation : Logical Functional Assignment Viewpoint

Domain	Aspect	Maturity
Logical	Mapping & Crossreference	 released

## Example



## Purpose

The Logical Functional Assignment Viewpoint specifies the assignment of the System Functions and the System Partial Functions to the Logical SOI and the Logical SOI Elements.

## Applicability

The Logical Function Allocation Viewpoint supports the "System Architecture Definition process" activities of the INCOSE SYSTEMS ENGINEERING HANDBOOK 2015 .

## 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.

## Presentation

A Logical Functional Assignment Matrix featuring

- the call behavior action representing usage of System Functions and or System Partial Functions
- the part properties representing usage of Logical SOI Elements
- the allocation relationship between abovementioned elements

## Profile Model Reference

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- [Allocate \[SysML Profile\]](#)
- [SAF\\_FunctionAction](#)
- [SAF\\_LogicalElement](#)
- [SAF\\_LogicalRole](#)
- [SAF\\_LogicalSOI](#)
- [SAF\\_SLV08a\\_View](#)
- [SAF\\_SystemFunction](#)
- [SAF\\_SystemPartialFunction](#)

## Input from other Viewpoints

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### Required Viewpoints

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

### Recommended Viewpoints

- [System Domain Item Kind Viewpoint](#)