

SAF User Documentation : Physical Logical Mapping Viewpoint

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

Example



Purpose

The Physical Logical Mapping Viewpoint specifies the assignment of the Logical System Elements to the Physical System Elements.

Applicability

The Physical Functional Mapping Viewpoint supports the "System Architecture Definition process" activities of the INCOSE SYSTEMS ENGINEERING HANDBOOK 2015 .

Presentation

A Physical To Logical Assignment Matrix featuring

- Logical Elements roles
- Physical Elements roles

- allocation relationships from logical elements roles to physical elements roles

Stakeholder

- [Hardware Developer](#)
- [IV&V Engineer](#)
- [Mechanic Developer](#)
- [Software Developer](#)
- [System Architect](#)

Concern

- [Which conceptual Logical Elements are allocated to Physical Elements in the physical architecture](#)

Profile Model Reference

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

- Allocate [SysML Profile]
- Attribute "logical_element" of SAF_PhysicalItem referencing SAF_LogicalElement
- SAF_LogicalInternalRole contained in SAF_LogicalElement
- SAF_PhysicalInternalRole contained in SAF_PhysicalItem
- [SAF_LogicalElement](#)
- [SAF_PhysicalInternalRole](#)
- [SAF_SPV08a_View](#)

Input from other Viewpoints

Required Viewpoints

- [Logical Functional Mapping Viewpoint](#)
- [Logical Structure Viewpoint](#)
- [Physical Structure Viewpoint](#)

Recommended Viewpoints

none