




SAF User Documentation : Physical Interface Definition Viewpoint

Domain	Aspect	Maturity
Physical	Interface	 under construction

Example

 Physical-Interface-Definition-Viewpoint-example.svg
 Physical-Interface-Definition-Viewpoint-example-1.svg
 Physical-Interface-Definition-Viewpoint-example-2.svg

Purpose

preliminary text - work in progress The Physical Interface Definition Viewpoint provides definitions for physical interfaces. These definitions are may be reused on different interfaces.

Applicability

The Physical Interface Definition Viewpoint supports the "Create System Design " activity included in "Design Definition Process" activities of the INCOSE SYSTEMS ENGINEERING HANDBOOK 2023 [§ 2.3.5.5] and contributes to the System Interface definition.

It also supports the "Interface Management" method of the INCOSE SYSTEMS ENGINEERING HANDBOOK 2023 [§ 3.2.4].

Presentation

A block definition diagram (BDD) featuring Physical Interface blocks with ports and flow properties. Compatibility between Physical Interface blocks is expressed by associations and association blocks. Physical Interface blocks may be specialisations of others (use of Generalisation). Note: When ports are used these shall be proxy ports and be typed by interface blocks.

A tabular format listing Physical Interface blocks, their ports, and flow properties.

Stakeholder

Concern

Profile Model Reference

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

- FlowProperty [SysML Profile]
- ProxyPort [SysML Profile]
- [SAF_PhysicalExchangeType](#)
- [SAF_PhysicalInterfaceDefinition](#)
- [SAF_ProtocolLayerRelationship](#)
- [SAF_SPV05a_View](#)

Input from other Viewpoints

Required Viewpoints

none

Recommended Viewpoints

none