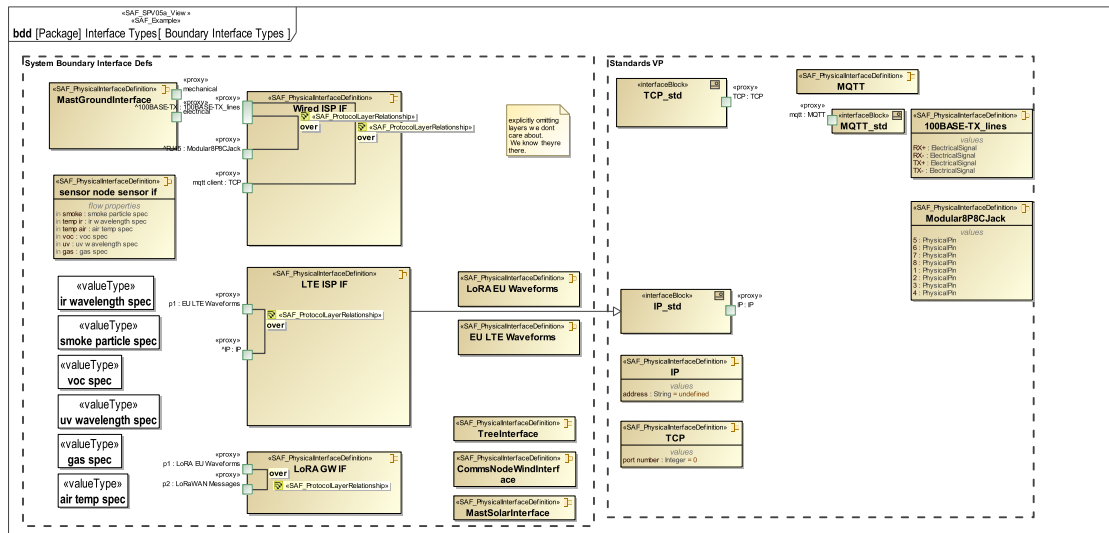
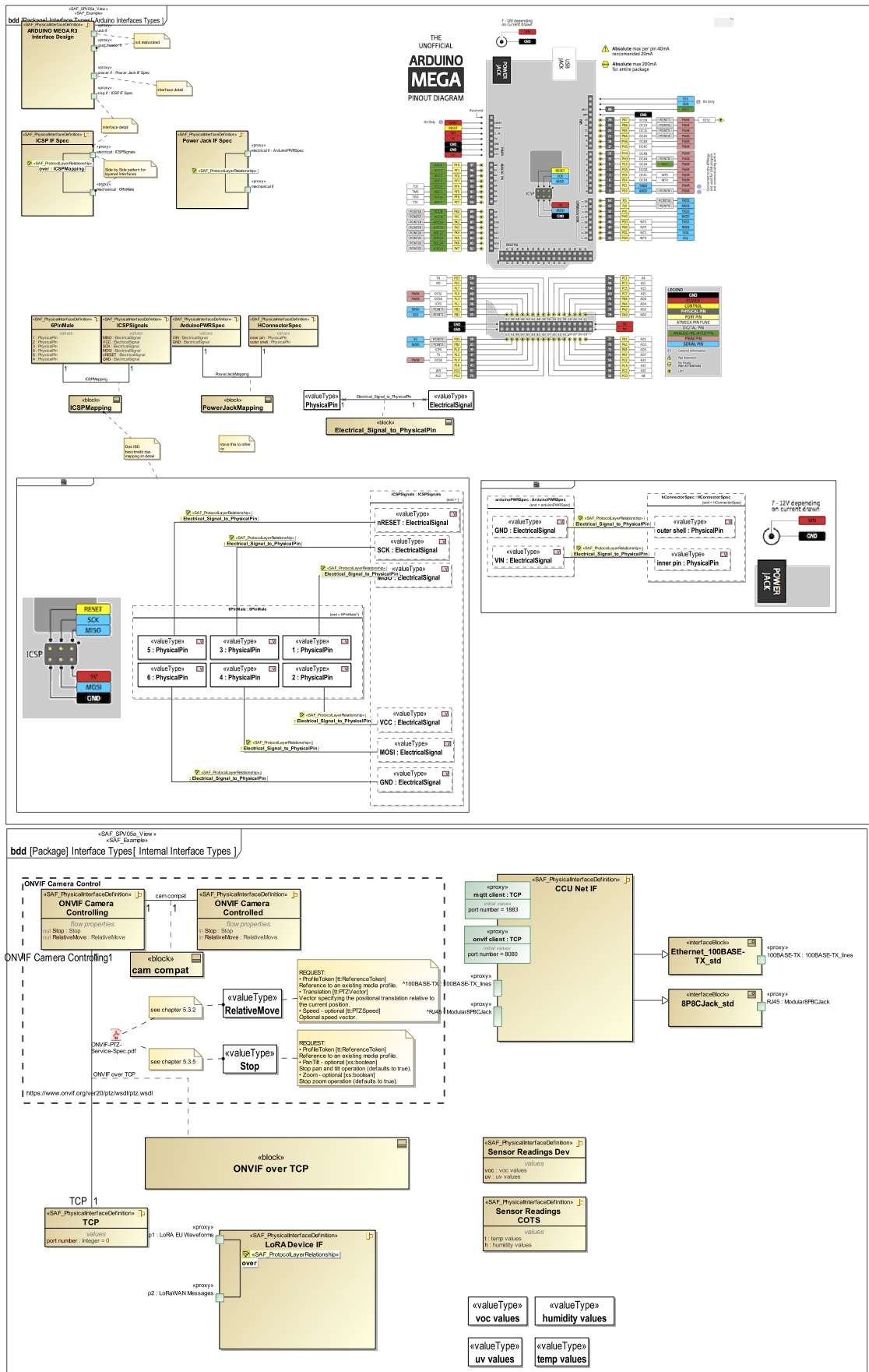


## SAF User Documentation : Physical Interface Definition Viewpoint

Domain	Aspect	Maturity
Physical	Interface	 released

### Example





# Purpose

The Physical Interface Definition Viewpoint provides definitions for physical interfaces. These definitions are may be reused on different interfaces.

## Applicability

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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

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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

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- [Hardware Developer](#)
- [Mechanic Developer](#)
- [Safety Expert](#)
- [Security Expert](#)
- [Software Developer](#)
- [System Architect](#)

## Concern

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- [What are the protocols used for exchanging information?](#)
- [Which kind of physical items \(energy, material, information, etc.\) are used in the physical architecture of the system?](#)
- [what are the interface definitions for the physical architecture](#)

## Profile Model Reference

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

- FlowProperty [SysML Profile]
- FlowProperty contained in SAF\_PhysicalInterfaceDefinition
- ProxyPort [SysML Profile]
- ProxyPort typed by SAF\_PhysicalInterfaceDefinition
- SAF\_PhysicalInterfaceDefinition contained in ProxyPort
- [SAF\\_PhysicalExchangeType](#)

- [SAF\\_PhysicalInterfaceDefinition](#)
- [SAF\\_ProtocolLayerRelationship](#)
- [SAF\\_SPV05a\\_View](#)

## Input from other Viewpoints

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### Required Viewpoints

*none*

### Recommended Viewpoints

*none*