

# SAF User Documentation : System Interface Definition Viewpoint

Domain	Aspect	Maturity
Functional	Interface	 released

## Example

 System-Interface-Definition-Viewpoint-primary-example.svg

## Purpose

The System Interface Definition Viewpoint captures system wide concepts defining functional interfaces. It allows to adopt long-lived standards and to harmonize the functional interface definitions to improve interchangeability, interoperability, and portability.

## Applicability

The System Interface Definition Viewpoint supports the "Prepare for Interface Requirement Definition" activity included in "System Requirements Definition Process" activities of the INCOSE SYSTEMS ENGINEERING HANDBOOK 2015 [§ 4.3] and contributes to the System Interface definition.

## Presentation

A block definition diagram (BDD) featuring System Interface blocks with ports, and flow properties. Note: When ports are used these shall be proxy ports and be typed by interface blocks.

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

## Stakeholder

## Concern

## Profile Model Reference

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

- Attribute "realizing connector" of ItemFlow referencing Connector
- Connector [UML\_Standard\_Profile]
- FlowProperty contained in SAF\_ConceptualInterfaceDefinition
- FlowProperty typed by SAF\_DomainKind
- FlowProperty [SysML Profile]
- ItemFlow typed by SAF\_DomainKind
- ItemFlow [SysML Profile]
- ProxyPort typed by InterfaceBlock
- ProxyPort [SysML Profile]
- [SAF\\_ConceptualInterfaceDefinition](#)
- [SAF\\_DomainKind](#)
- [SAF\\_SFV05a\\_View](#)

## Input from other Viewpoints

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### Required Viewpoints

*none*

### Recommended Viewpoints

*none*