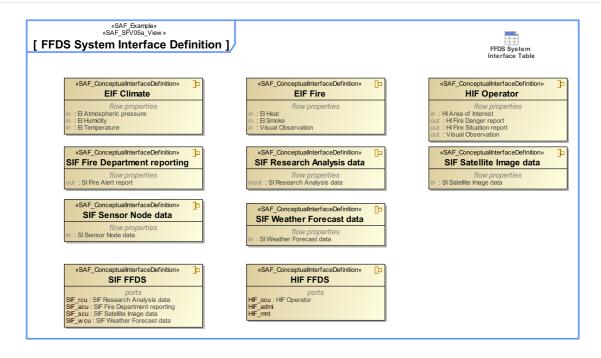
# SAF User Documentation : System Interface Definition Viewpoint

| Domain     | Aspect    | Maturity |
|------------|-----------|----------|
| Functional | Interface | released |

# **Example**



## **Purpose**

The System Interface Definition Viewpoint captures system wide concepts defining interfaces. It allows to adopt long-lived standards and to harmonize the 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 [§2.3.5.3] and contributes to the System Interface definition.

#### **Presentation**

A block definition diagram (BDD) featuring System Interface blocks with ports, and flow properties.

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

#### Stakeholder

- Hardware Developer
- IV&V Engineer
- Security Expert
- Software Developer
- System Architect

#### Concern

• Which standards, protocols, and format specifications are associated with a specific interface?

#### **Profile Model Reference**

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

- Attribute "realizingConnector" of InformationFlow referencing Connector
- Connector [UML Standard Profile]
- FlowProperty [SysML Profile]
- FlowProperty contained in SAF\_ConceptualInterfaceDefinition
- FlowProperty typed by SAF DomainKind
- ItemFlow [SysML Profile]
- ItemFlow typed by SAF\_DomainKind
- ProxyPort [SysML Profile]
- ProxyPort typed by SAF ConceptualInterfaceDefinition
- SAF ConceptualInterfaceDefinition
- SAF\_DomainKind
- SAF\_SFV05a\_View

# Input from other Viewpoints

#### **Required Viewpoints**

none

### **Recommended Viewpoints**

none