Python4Capella Simplified Metamodel

Document generated automatically by M2Doc from Capella model

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# Foreword

Introduction

This model defines the Capella simplified metamodel for implementation of Python API.

The overview of the concepts is provided here: [[CDB] Capella Light Metamodel](hlink://_DEN_8IrrEeum3sRHbZTGzQ)

This diagrams provides links towards other diagrams.

Capella version

The model focus on the definition of Capella metamodel for version 1.4.0 / 1.4.1 / 1.4.2 / 5.0.0 (no difference between those versions).

Metamodel for Capella 1.3.x will be defined later.

Definition of the API

To support the definition of the Python API, some Abstract Types have been defined which are then specialized.

They are defined mainly to ease the definition of the API (to avoid repetition of similar definitions on similar types).

They are not necessarily to be retained by end user.

The main Abstract Types defined are:

* [CapellaElement](hlink://7bd88617-cd02-494f-b666-d250ff6417d6)
* [AbstractCapability](hlink://d26dd98c-93da-4303-92b8-187452212c79)
* [Function](hlink://9dff1e7f-c120-4fe8-bcb5-f3669b2a4a06)
* [BehavioralComponent](hlink://a5c9af0a-2b12-4b80-adff-c9307c2ab9e2)
* [Node](hlink://187ed12e-8722-4fef-b5a1-b605bd98840b)

Excluded elements

This first version only focuses on the definition of a simplified metamodel for Capella concepts (model elements).

The concept of diagram is defined (and its relation with model elements) in this diagram: [[CDB] Diagram](hlink://_TheWQM57EeurHu2jZJ4leA).

**However, the content of diagram (graphical elements) is not yet defined**.

Moreover, following elements are excluded from this simplified metamodel:

* All **technical elements** like traces which are only represented by a direct link between elements
* **Capella core requirements** (which are deprecated and replaced by the Requirement add-on)
* **Generic Traces**
* Functional Chain and Physical Path **involvement elements** (simplified metamodel defines a direct relation with Functions or NodePC)  
   As a result, it will not be possible to edit Functional Chain and Physical Path definition with the simplified metamodel  
   Moreover, Control Nodes and Sequence Links are excluded from Functional Chain definition as they rely on the involvement elements.
* **Exchange Item Allocation** (which defines the allocation of Exchange Items in Interfaces but does not have relevant information for the end user)
* **Roles in the Operational Analysis (TBC)**

Main differences with technical metamodel

In addition to the excluded elements presented before, some elements are defined differently in the model compared to the real Capella technical metamodel.

The main differences are:

* **definition of Abstract Types**: the Abstract Types defined in this model are different from the Abstract Types defined in the technical metamodel. They are introduced in order to simplify the definition of the API. Many levels of Abstract Types are not introduced here. Only the necessary Abstract Types have been introduced to avoid repetition, but Abstract Types have been avoided as much as possible to avoid complexity
* **definition of Packages**: the packages have been redefined in this model and do not strictly follow the same organization as the packages defined in the technical metamodel
* **definition of Actors as a specific type (same for the System)**: in the technical metamodel, actors are defined as a generic Component with a tag isActor. In this simplified metamodel, a specific type as been introduced in order to clearly differentiate what is external to the system and what is not. Moreover, actors in Capella have some specificities: they have both the characteristics of behavioral components and node components at the same time, which is not the case of the component of the system
* **definition of Interaction as a specific type**: in the technical metamodel, Interactions are defined as generic FunctionalExchange. Interactions have been introduced here to clearly separate Functions / Functional Exchanges / Functional Chains from Activities / Interactions / Operation Processes. One of the main reason for this is that Activities do not have ports
* **definition of ComponentExchange source / target**: in the technical metamodel, a ComponentExchange has a source and a target. However, from the user point of view, the orientation of the ComponentExchange is defined from the property orientation on the ComponentPorts. As a result, this simplified metamodel defines only that a ComponentExchange connects two ports without distinguishing a source and a target
* **definition of containment for some elements**: the containment of elements like the Exchanges (FunctionalExchange, ComponentExchange, PhysicalLink) is not defined in this simplified metamodel because it is not relevant for the end user. What is important is that an exchange connects two elements together. Where the exchange is stored should be defined by the tool and not by the end user
* **definition of PropertyValue as one single type**: This is a simplification of the technical metamodel. In the technical metamodel there is: StringPropertyValue, IntegerPropertyValue, BooleanPropertyValue, FloatPropertyValue, EnumerationPropertyValue
* **definition of REC and RPL as two distinct types**: in the technical metamodel, REC and RPL are both defined as CatalogElement with a tag for the type. However, REC and RPL have relations with are specific and do not apply to the other type. As a result, they have been defined as two distinct types here

# [Package] capellamodeller

## [Type] CapellaModel

Direct super types:

*No direct super type*

Direct sub-types:

* CapellaLibrary

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| systemEngineering | COMPOSITION | [1 1] | SystemEngineering | *defined on type* |
| referencedLibraries | ASSOCIATION | [0 \*] | CapellaLibrary | *defined on type* |
| allDiagrams | ASSOCIATION | [0 \*] | Diagram | *defined on type* |

## [Type] CapellaLibrary

Direct super types:

* CapellaModel

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| systemEngineering | COMPOSITION | [1 1] | SystemEngineering | CapellaModel |
| referencedLibraries | ASSOCIATION | [0 \*] | CapellaLibrary | CapellaModel |
| allDiagrams | ASSOCIATION | [0 \*] | Diagram | CapellaModel |

## [Type] SystemEngineering

Direct super types:

* PropertyValuePkgContainer

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* CapellaModel

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| recCatalogs | COMPOSITION | [0 \*] | RecCatalog | *defined on type* |
| operationalAnalysis | COMPOSITION | [1 1] | OperationalAnalysis | *defined on type* |
| systemAnalysis | COMPOSITION | [1 1] | SystemAnalysis | *defined on type* |
| logicalArchitecture | COMPOSITION | [1 1] | LogicalArchitecture | *defined on type* |
| physicalArchitecture | COMPOSITION | [1 1] | PhysicalArchitecture | *defined on type* |
| ePBSArchitecture | COMPOSITION | [1 1] | EPBSArchitecture | *defined on type* |

# [Package] capellacore

## [Type] EObject [Abstract]

Direct super types:

*No direct super type*

Direct sub-types:

* CapellaElement
* AbstractReElement

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | *defined on type* |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | *defined on type* |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | *defined on type* |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | *defined on type* |

## [Type] CapellaElement [Abstract]

Direct super types:

* EObject

Direct sub-types:

* Constraint
* PropertyValue
* PropertyValueGroup
* EnumerationPropertyType
* EnumerationPropertyLiteral
* PropertyValuePkgContainer
* Interaction
* OperationalProcess
* OperationalActor
* CommunicationMean
* Mission
* PhysicalSystem
* AbstractPhysicalArtifact
* NodePC
* ConfigurationItem
* StateMachine
* AbstractState
* Region
* StateTransition
* AbstractActivityFunction
* Scenario
* PhysicalLinkCategory
* PhysicalPath
* Interface
* ExchangeItem
* ExchangeItemElement
* FunctionPort
* FunctionalExchange
* ExchangeCategory
* FunctionalChain
* BehavioralComponent
* ComponentPort
* ComponentExchange
* ComponentExchangeCategory

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | *defined on type* |
| sid | String | *defined on type* |
| name | String | *defined on type* |
| summary | String | *defined on type* |
| description | String | *defined on type* |
| status | Status | *defined on type* |
| review | String | *defined on type* |
| visibleInDocumentation | Boolean | *defined on type* |
| visibleForTraceability | Boolean | *defined on type* |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | *defined on type* |
| constraints | ASSOCIATION | [0 \*] | Constraint | *defined on type* |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | *defined on type* |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | *defined on type* |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | *defined on type* |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | *defined on type* |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | *defined on type* |

## [Type] Constraint

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* CapellaElement

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |
| specification | String | *defined on type* |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| constrainedElements | ASSOCIATION | [0 \*] | CapellaElement | *defined on type* |

## [Type] PropertyValue

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* CapellaElement

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |
| kind | PropertyValueKind | *defined on type* |
| value | String | *defined on type* |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| valuedElements | ASSOCIATION | [0 \*] | CapellaElement | *defined on type* |
| type | ASSOCIATION | [0 1] | EnumerationPropertyType | *defined on type* |

## [Type] PropertyValueGroup

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* CapellaElement

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| valuedElements | ASSOCIATION | [0 \*] | CapellaElement | *defined on type* |

## [Type] PropertyValuePkg

Direct super types:

* PropertyValuePkgContainer

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* PropertyValuePkgContainer

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |

## [Type] EnumerationPropertyType

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* CapellaElement

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedLiterals | COMPOSITION | [0 \*] | EnumerationPropertyLiteral | *defined on type* |

## [Type] EnumerationPropertyLiteral

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* EnumerationPropertyType

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |

## [Type] PropertyValuePkgContainer [Abstract]

Direct super types:

* CapellaElement

Direct sub-types:

* SystemEngineering
* PropertyValuePkg
* OperationalAnalysis
* OperationalActivityPkg
* OperationalCapabilityPkg
* EntityPkg
* SystemAnalysis
* SystemFunctionPkg
* CapabilityPkg
* SystemComponentPkg
* MissionPkg
* LogicalArchitecture
* LogicalFunctionPkg
* CapabilityRealizationPkg
* LogicalComponentPkg
* PhysicalArchitecture
* PhysicalFunctionPkg
* PhysicalComponentPkg
* EPBSArchitecture
* ConfigurationItemPkg
* InterfacePkg
* AbstractCapability

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | *defined on type* |

## [Enumeration] Status

List of values:

*No value defined*

Used by:

* SystemEngineering
* CapellaElement
* Constraint
* PropertyValue
* PropertyValueGroup
* PropertyValuePkg
* EnumerationPropertyType
* EnumerationPropertyLiteral
* PropertyValuePkgContainer
* Diagram
* OperationalAnalysis
* OperationalActivityPkg
* OperationalActivity
* Interaction
* OperationalProcess
* OperationalCapabilityPkg
* OperationalCapability
* EntityPkg
* OperationalEntity
* OperationalActor
* CommunicationMean
* SystemAnalysis
* SystemFunctionPkg
* SystemFunction
* CapabilityPkg
* Capability
* SystemComponentPkg
* System
* SystemActor
* MissionPkg
* Mission
* LogicalArchitecture
* LogicalFunctionPkg
* LogicalFunction
* CapabilityRealizationPkg
* CapabilityRealization
* LogicalComponentPkg
* LogicalSystem
* LogicalComponent
* LogicalActor
* PhysicalArchitecture
* PhysicalFunctionPkg
* PhysicalFunction
* PhysicalComponentPkg
* PhysicalSystem
* AbstractPhysicalArtifact
* PhysicalComponent
* BehaviorPC
* NodePC
* PhysicalActor
* EPBSArchitecture
* ConfigurationItemPkg
* ConfigurationItem
* StateMachine
* AbstractState
* State
* Mode
* Pseudostate
* Region
* StateTransition
* AbstractActivityFunction
* Scenario
* PhysicalPort
* PhysicalLink
* PhysicalLinkCategory
* PhysicalPath
* InterfacePkg
* Interface
* ExchangeItem
* ExchangeItemElement
* Function
* FunctionPort
* FunctionInputPort
* FunctionOutputPort
* FunctionalExchange
* ExchangeCategory
* FunctionalChain
* BehavioralComponent
* ComponentPort
* ComponentExchange
* ComponentExchangeCategory
* AbstractCapability
* AbstractSystemCapability

## [Enumeration] PropertyValueKind

List of values:

* StringPropertyValue
* IntegerPropertyValue
* BooleanPropertyValue
* FloatPropertyValue
* EnumerationPropertyValue

Used by:

* PropertyValue

## [Enumeration] VisibilityKind

List of values:

* UNSET
* PUBLIC
* PROTECTED
* PRIVATE
* PACKAGE

Used by:

* Interface

# [Package] diagram

## [Type] Diagram

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* EObject

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| uid | String | *defined on type* |
| name | String | *defined on type* |
| type | String | *defined on type* |
| package | String | *defined on type* |
| description | String | *defined on type* |
| status | Status | *defined on type* |
| review | String | *defined on type* |
| visibleInDocumentation | Boolean | *defined on type* |
| visibleForTraceability | Boolean | *defined on type* |
| synchronized | Boolean | *defined on type* |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| target | ASSOCIATION | [1 1] | EObject | *defined on type* |
| representedElements | ASSOCIATION | [0 \*] | EObject | *defined on type* |
| contextualElements | ASSOCIATION | [0 \*] | EObject | *defined on type* |
| elementsOfInterest | ASSOCIATION | [0 \*] | EObject | *defined on type* |

# [Package] re

## [Type] AbstractReElement [Abstract]

Direct super types:

* EObject

Direct sub-types:

* AbstractCatalogElement
* CatalogElementPkg
* CompliancyDefinitionPkg
* CompliancyDefinition

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | *defined on type* |
| name | String | *defined on type* |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |

## [Type] AbstractCatalogElement [Abstract]

Direct super types:

* AbstractReElement

Direct sub-types:

* REC
* RPL

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | AbstractReElement |
| name | String | AbstractReElement |
| decription | String | *defined on type* |
| author | String | *defined on type* |
| environment | String | *defined on type* |
| tags | String | *defined on type* |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| referencedElements | ASSOCIATION | [0 \*] | EObject | *defined on type* |

## [Type] REC

Direct super types:

* AbstractCatalogElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* CatalogElementPkg

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | AbstractReElement |
| name | String | AbstractReElement |
| decription | String | AbstractCatalogElement |
| author | String | AbstractCatalogElement |
| environment | String | AbstractCatalogElement |
| tags | String | AbstractCatalogElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| referencedElements | ASSOCIATION | [0 \*] | EObject | AbstractCatalogElement |
| defaultReplicaCompliancy | ASSOCIATION | [1 1] | CompliancyDefinition | *defined on type* |
| replicatedElements | ASSOCIATION | [0 \*] | RPL | *defined on type* |

## [Type] RPL

Direct super types:

* AbstractCatalogElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* CatalogElementPkg

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | AbstractReElement |
| name | String | AbstractReElement |
| decription | String | AbstractCatalogElement |
| author | String | AbstractCatalogElement |
| environment | String | AbstractCatalogElement |
| tags | String | AbstractCatalogElement |
| suffix | String | *defined on type* |
| readOnly | Boolean | *defined on type* |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| referencedElements | ASSOCIATION | [0 \*] | EObject | AbstractCatalogElement |
| origin | ASSOCIATION | [1 1] | REC | *defined on type* |
| currentCompliancy | ASSOCIATION | [1 1] | CompliancyDefinition | *defined on type* |

## [Type] CatalogElementPkg

Direct super types:

* AbstractReElement

Direct sub-types:

* RecCatalog

Possible parent elements:

* CatalogElementPkg

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | AbstractReElement |
| name | String | AbstractReElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedElementPkgs | COMPOSITION | [0 \*] | CatalogElementPkg | *defined on type* |
| ownedRecs | COMPOSITION | [0 \*] | REC | *defined on type* |
| ownedRpls | COMPOSITION | [0 \*] | RPL | *defined on type* |

## [Type] RecCatalog

Direct super types:

* CatalogElementPkg

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* SystemEngineering

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | AbstractReElement |
| name | String | AbstractReElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedElementPkgs | COMPOSITION | [0 \*] | CatalogElementPkg | CatalogElementPkg |
| ownedRecs | COMPOSITION | [0 \*] | REC | CatalogElementPkg |
| ownedRpls | COMPOSITION | [0 \*] | RPL | CatalogElementPkg |
| ownedCompliancyDefinitionPkg | COMPOSITION | [1 1] | CompliancyDefinitionPkg | *defined on type* |

## [Type] CompliancyDefinitionPkg

Direct super types:

* AbstractReElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* RecCatalog

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | AbstractReElement |
| name | String | AbstractReElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedDefinitions | COMPOSITION | [0 \*] | CompliancyDefinition | *defined on type* |

## [Type] CompliancyDefinition

Direct super types:

* AbstractReElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* CompliancyDefinitionPkg

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | AbstractReElement |
| name | String | AbstractReElement |
| description | String | *defined on type* |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |

# [Package] oa

## [Type] OperationalAnalysis

Direct super types:

* PropertyValuePkgContainer

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* SystemEngineering

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| operationalActivityPkg | COMPOSITION | [1 1] | OperationalActivityPkg | *defined on type* |
| operationalCapabilityPkg | COMPOSITION | [1 1] | OperationalCapabilityPkg | *defined on type* |
| interfacePkg | COMPOSITION | [1 1] | InterfacePkg | *defined on type* |
| dataPkg | COMPOSITION | [1 1] | DataPkg | *defined on type* |
| entityPkg | COMPOSITION | [1 1] | EntityPkg | *defined on type* |

## [Type] OperationalActivityPkg

Direct super types:

* PropertyValuePkgContainer

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* OperationalAnalysis
* OperationalActivityPkg
* OperationalActivity

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| ownedOperationalActivityPkgs | COMPOSITION | [0 \*] | OperationalActivityPkg | *defined on type* |
| ownedOperationalActivities | COMPOSITION | [0 \*] | OperationalActivity | *defined on type* |

## [Type] OperationalActivity

Direct super types:

* AbstractActivityFunction

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* OperationalActivityPkg
* OperationalActivity

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| availableInStates | ASSOCIATION | [0 \*] | State | AbstractActivityFunction |
| containedOperationalActivities | COMPOSITION | [0 \*] | OperationalActivity | *defined on type* |
| ownedOperationalActivityPkgs | COMPOSITION | [0 \*] | OperationalActivityPkg | *defined on type* |
| incoming | ASSOCIATION | [0 \*] | Interaction | *defined on type* |
| outgoing | ASSOCIATION | [0 \*] | Interaction | *defined on type* |
| allocatingEntity | ASSOCIATION | [0 1] | OperationalActor | *defined on type* |
| ownedOperationalProcesses | COMPOSITION | [0 \*] | OperationalProcess | *defined on type* |
| involvingOperationalProcesses | ASSOCIATION | [0 \*] | OperationalProcess | *defined on type* |
| involvingOperationalCapabilities | ASSOCIATION | [0 \*] | OperationalCapability | *defined on type* |
| realizingSystemFunctions | ASSOCIATION | [0 \*] | SystemFunction | *defined on type* |

## [Type] Interaction

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| source | ASSOCIATION | [1 1] | OperationalActivity | *defined on type* |
| target | ASSOCIATION | [1 1] | OperationalActivity | *defined on type* |
| allocatingCommunicationMean | ASSOCIATION | [0 1] | CommunicationMean | *defined on type* |
| involvingOperationalProcesses | ASSOCIATION | [0 \*] | OperationalProcess | *defined on type* |
| exchangedItems | ASSOCIATION | [0 \*] | ExchangeItem | *defined on type* |
| realizingFunctionalExchanges | ASSOCIATION | [0 \*] | FunctionalExchange | *defined on type* |

## [Type] OperationalProcess

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* OperationalActivity
* OperationalCapability

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| involvedOperationalActivities | ASSOCIATION | [0 \*] | OperationalActivity | *defined on type* |
| involvedInteractions | ASSOCIATION | [0 \*] | Interaction | *defined on type* |
| involvedOperationalProcesses | ASSOCIATION | [0 \*] | OperationalProcess | *defined on type* |
| preCondition | ASSOCIATION | [0 1] | Constraint | *defined on type* |
| postCondition | ASSOCIATION | [0 1] | Constraint | *defined on type* |
| availableInStates | ASSOCIATION | [0 \*] | State | *defined on type* |
| involvingOperationalCapabilities | ASSOCIATION | [0 \*] | OperationalCapability | *defined on type* |
| realizingFunctionalChains | ASSOCIATION | [0 \*] | FunctionalChain | *defined on type* |

## [Type] OperationalCapabilityPkg

Direct super types:

* PropertyValuePkgContainer

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* OperationalAnalysis
* OperationalCapabilityPkg

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| ownedOperationalCapabilityPkgs | COMPOSITION | [0 \*] | OperationalCapabilityPkg | *defined on type* |
| ownedOperationalCapabilities | COMPOSITION | [0 \*] | OperationalCapability | *defined on type* |

## [Type] OperationalCapability

Direct super types:

* AbstractCapability

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* OperationalCapabilityPkg

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| preCondition | ASSOCIATION | [1 1] | Constraint | AbstractCapability |
| postCondition | ASSOCIATION | [1 1] | Constraint | AbstractCapability |
| ownedScenarios | ASSOCIATION | [0 \*] | Scenario | AbstractCapability |
| super | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| sub | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| includedCapabilities | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| includingCapabilities | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| extendedCapabilities | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| extendingCapabilities | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| availableInStates | ASSOCIATION | [0 \*] | State | AbstractCapability |
| ownedOperationalProcesses | COMPOSITION | [0 \*] | OperationalProcess | *defined on type* |
| involvedOperationalProcesses | ASSOCIATION | [0 \*] | OperationalProcess | *defined on type* |
| involvedOperationalActivities | ASSOCIATION | [0 \*] | OperationalActivity | *defined on type* |
| involvedEntities | ASSOCIATION | [0 \*] | OperationalActor | *defined on type* |
| realizingCapabilities | ASSOCIATION | [0 \*] | Capability | *defined on type* |

## [Type] EntityPkg

Direct super types:

* PropertyValuePkgContainer

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* OperationalAnalysis
* EntityPkg

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| ownedEntityPkgs | COMPOSITION | [0 \*] | EntityPkg | *defined on type* |
| ownedEntities | COMPOSITION | [0 \*] | OperationalActor | *defined on type* |

## [Type] OperationalEntity

Direct super types:

* OperationalActor

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* OperationalEntity

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| incomingCommunicationMeans | ASSOCIATION | [0 \*] | CommunicationMean | OperationalActor |
| outgoingCommunicationMeans | ASSOCIATION | [0 \*] | CommunicationMean | OperationalActor |
| allocatedOperationalActivities | ASSOCIATION | [0 \*] | OperationalActivity | OperationalActor |
| involvingOperationalCapabilities | ASSOCIATION | [0 \*] | OperationalCapability | OperationalActor |
| ownedStateMachines | COMPOSITION | [0 \*] | StateMachine | OperationalActor |
| realizingSystemActors | ASSOCIATION | [0 \*] | SystemActor | OperationalActor |
| ownedEntities | COMPOSITION | [0 \*] | OperationalEntity | *defined on type* |

## [Type] OperationalActor

Direct super types:

* CapellaElement

Direct sub-types:

* OperationalEntity

Possible parent elements:

* EntityPkg

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| incomingCommunicationMeans | ASSOCIATION | [0 \*] | CommunicationMean | *defined on type* |
| outgoingCommunicationMeans | ASSOCIATION | [0 \*] | CommunicationMean | *defined on type* |
| allocatedOperationalActivities | ASSOCIATION | [0 \*] | OperationalActivity | *defined on type* |
| involvingOperationalCapabilities | ASSOCIATION | [0 \*] | OperationalCapability | *defined on type* |
| ownedStateMachines | COMPOSITION | [0 \*] | StateMachine | *defined on type* |
| realizingSystemActors | ASSOCIATION | [0 \*] | SystemActor | *defined on type* |

## [Type] CommunicationMean

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| sourceEntity | ASSOCIATION | [1 1] | OperationalActor | *defined on type* |
| targetEntity | ASSOCIATION | [1 1] | OperationalActor | *defined on type* |
| allocatedInteractions | ASSOCIATION | [0 \*] | Interaction | *defined on type* |
| convoyedInformations | ASSOCIATION | [0 \*] | ExchangeItem | *defined on type* |
| realizingComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | *defined on type* |

# [Package] sa

## [Type] SystemAnalysis

Direct super types:

* PropertyValuePkgContainer

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* SystemEngineering

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| systemFunctionPkg | COMPOSITION | [1 1] | SystemFunctionPkg | *defined on type* |
| capabilityPkg | COMPOSITION | [1 1] | CapabilityPkg | *defined on type* |
| interfacePkg | COMPOSITION | [1 1] | InterfacePkg | *defined on type* |
| dataPkg | COMPOSITION | [1 1] | DataPkg | *defined on type* |
| systemComponentPkg | COMPOSITION | [1 1] | SystemComponentPkg | *defined on type* |
| missionPkg | COMPOSITION | [1 1] | MissionPkg | *defined on type* |

## [Type] SystemFunctionPkg

Direct super types:

* PropertyValuePkgContainer

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* SystemAnalysis
* SystemFunctionPkg
* SystemFunction

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| ownedSystemFunctionPkgs | COMPOSITION | [0 \*] | SystemFunctionPkg | *defined on type* |
| ownedSystemFunctions | COMPOSITION | [0 \*] | SystemFunction | *defined on type* |

## [Type] SystemFunction

Direct super types:

* Function

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* SystemFunctionPkg
* SystemFunction

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |
| kind | FunctionKind | Function |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| availableInStates | ASSOCIATION | [0 \*] | State | AbstractActivityFunction |
| inputs | COMPOSITION | [0 \*] | FunctionInputPort | Function |
| outputs | COMPOSITION | [0 \*] | FunctionOutputPort | Function |
| incoming | ASSOCIATION | [0 \*] | FunctionalExchange | Function |
| outgoing | ASSOCIATION | [0 \*] | FunctionalExchange | Function |
| allocatingComponent | ASSOCIATION | [0 1] | BehavioralComponent | Function |
| ownedFunctionalChains | COMPOSITION | [0 \*] | FunctionalChain | Function |
| involvingFunctionalChains | ASSOCIATION | [0 \*] | FunctionalChain | Function |
| involvingCapabilities | ASSOCIATION | [0 \*] | AbstractSystemCapability | Function |
| containedSystemFunctions | COMPOSITION | [0 \*] | SystemFunction | *defined on type* |
| ownedSystemFunctionPkgs | COMPOSITION | [0 \*] | SystemFunctionPkg | *defined on type* |
| realizedOperationalActivities | ASSOCIATION | [0 \*] | OperationalActivity | *defined on type* |
| realizingLogicalFunctions | ASSOCIATION | [0 \*] | LogicalFunction | *defined on type* |

## [Type] CapabilityPkg

Direct super types:

* PropertyValuePkgContainer

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* SystemAnalysis
* CapabilityPkg

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| ownedCapabilityPkgs | COMPOSITION | [0 \*] | CapabilityPkg | *defined on type* |
| ownedCapabilities | COMPOSITION | [0 \*] | Capability | *defined on type* |

## [Type] Capability

Direct super types:

* AbstractSystemCapability

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* CapabilityPkg

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| preCondition | ASSOCIATION | [1 1] | Constraint | AbstractCapability |
| postCondition | ASSOCIATION | [1 1] | Constraint | AbstractCapability |
| ownedScenarios | ASSOCIATION | [0 \*] | Scenario | AbstractCapability |
| super | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| sub | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| includedCapabilities | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| includingCapabilities | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| extendedCapabilities | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| extendingCapabilities | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| availableInStates | ASSOCIATION | [0 \*] | State | AbstractCapability |
| ownedFunctionalChains | COMPOSITION | [0 \*] | FunctionalChain | AbstractSystemCapability |
| involvedFunctionalChains | ASSOCIATION | [0 \*] | FunctionalChain | AbstractSystemCapability |
| involvedFunctions | ASSOCIATION | [0 \*] | Function | AbstractSystemCapability |
| purposeMissions | ASSOCIATION | [0 \*] | Mission | *defined on type* |
| realizedOperationalCapabilities | ASSOCIATION | [0 \*] | OperationalCapability | *defined on type* |
| realizingCapabilityRealizations | ASSOCIATION | [0 \*] | CapabilityRealization | *defined on type* |
| involvedSystemActors | ASSOCIATION | [0 \*] | SystemActor | *defined on type* |

## [Type] SystemComponentPkg

Direct super types:

* PropertyValuePkgContainer

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* SystemAnalysis
* SystemComponentPkg
* SystemActor

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| ownedSystemComponentPkgs | COMPOSITION | [0 \*] | SystemComponentPkg | *defined on type* |
| ownedSystem | COMPOSITION | [1 1] | System | *defined on type* |
| ownedActors | COMPOSITION | [0 \*] | SystemActor | *defined on type* |

## [Type] System

Direct super types:

* BehavioralComponent
* Node

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* SystemComponentPkg

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| containedComponentPorts | COMPOSITION | [0 \*] | ComponentPort | BehavioralComponent |
| incomingComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | BehavioralComponent |
| outgoingComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | BehavioralComponent |
| inoutComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | BehavioralComponent |
| allocatedFunctions | ASSOCIATION | [0 \*] | Function | BehavioralComponent |
| usedInterfaces | ASSOCIATION | [0 \*] | Interface | BehavioralComponent |
| implementedInterfaces | ASSOCIATION | [0 \*] | Interface | BehavioralComponent |
| ownedStateMachines | COMPOSITION | [0 \*] | StateMachine | BehavioralComponent |
| containedPhysicalPorts | COMPOSITION | [0 \*] | PhysicalPort | Node |
| physicalLinks | ASSOCIATION | [0 \*] | PhysicalLink | Node |
| involvingPhysicalPaths | ASSOCIATION | [0 \*] | PhysicalPath | Node |
| ownedStateMachines | COMPOSITION | [0 \*] | StateMachine | Node |

## [Type] SystemActor

Direct super types:

* BehavioralComponent
* Node

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* SystemComponentPkg
* SystemActor

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |
| isHuman | Boolean | *defined on type* |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| containedComponentPorts | COMPOSITION | [0 \*] | ComponentPort | BehavioralComponent |
| incomingComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | BehavioralComponent |
| outgoingComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | BehavioralComponent |
| inoutComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | BehavioralComponent |
| allocatedFunctions | ASSOCIATION | [0 \*] | Function | BehavioralComponent |
| usedInterfaces | ASSOCIATION | [0 \*] | Interface | BehavioralComponent |
| implementedInterfaces | ASSOCIATION | [0 \*] | Interface | BehavioralComponent |
| ownedStateMachines | COMPOSITION | [0 \*] | StateMachine | BehavioralComponent |
| containedPhysicalPorts | COMPOSITION | [0 \*] | PhysicalPort | Node |
| physicalLinks | ASSOCIATION | [0 \*] | PhysicalLink | Node |
| involvingPhysicalPaths | ASSOCIATION | [0 \*] | PhysicalPath | Node |
| ownedStateMachines | COMPOSITION | [0 \*] | StateMachine | Node |
| ownedActors | COMPOSITION | [0 \*] | SystemActor | *defined on type* |
| ownedSystemComponentPkgs | COMPOSITION | [1 1] | SystemComponentPkg | *defined on type* |
| involvingMissions | ASSOCIATION | [0 \*] | Mission | *defined on type* |
| realizedOperationalEntities | ASSOCIATION | [0 \*] | OperationalActor | *defined on type* |
| involvingCapabilities | ASSOCIATION | [0 \*] | Capability | *defined on type* |
| realizingLogicalActors | ASSOCIATION | [0 \*] | LogicalActor | *defined on type* |

## [Type] MissionPkg

Direct super types:

* PropertyValuePkgContainer

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* SystemAnalysis
* MissionPkg

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| ownedMissionPkgs | COMPOSITION | [0 \*] | MissionPkg | *defined on type* |
| ownedMissions | COMPOSITION | [0 \*] | Mission | *defined on type* |

## [Type] Mission

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* MissionPkg

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| exploitedCapabilities | ASSOCIATION | [0 \*] | Capability | *defined on type* |
| involvedActors | ASSOCIATION | [0 \*] | SystemActor | *defined on type* |

# [Package] la

## [Type] LogicalArchitecture

Direct super types:

* PropertyValuePkgContainer

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* SystemEngineering

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| logicalFunctionPkg | COMPOSITION | [1 1] | LogicalFunctionPkg | *defined on type* |
| capabilityRealizationPkg | COMPOSITION | [1 1] | CapabilityRealizationPkg | *defined on type* |
| interfacePkg | COMPOSITION | [1 1] | InterfacePkg | *defined on type* |
| dataPkg | COMPOSITION | [1 1] | DataPkg | *defined on type* |
| logicalComponentPkg | COMPOSITION | [1 1] | LogicalComponentPkg | *defined on type* |

## [Type] LogicalFunctionPkg

Direct super types:

* PropertyValuePkgContainer

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* LogicalArchitecture
* LogicalFunctionPkg
* LogicalFunction

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| ownedLogicalFunctionPkgs | COMPOSITION | [0 \*] | LogicalFunctionPkg | *defined on type* |
| ownedLogicalFunctions | COMPOSITION | [0 \*] | LogicalFunction | *defined on type* |

## [Type] LogicalFunction

Direct super types:

* Function

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* LogicalFunctionPkg
* LogicalFunction

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |
| kind | FunctionKind | Function |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| availableInStates | ASSOCIATION | [0 \*] | State | AbstractActivityFunction |
| inputs | COMPOSITION | [0 \*] | FunctionInputPort | Function |
| outputs | COMPOSITION | [0 \*] | FunctionOutputPort | Function |
| incoming | ASSOCIATION | [0 \*] | FunctionalExchange | Function |
| outgoing | ASSOCIATION | [0 \*] | FunctionalExchange | Function |
| allocatingComponent | ASSOCIATION | [0 1] | BehavioralComponent | Function |
| ownedFunctionalChains | COMPOSITION | [0 \*] | FunctionalChain | Function |
| involvingFunctionalChains | ASSOCIATION | [0 \*] | FunctionalChain | Function |
| involvingCapabilities | ASSOCIATION | [0 \*] | AbstractSystemCapability | Function |
| containedLogicalFunctions | COMPOSITION | [0 \*] | LogicalFunction | *defined on type* |
| ownedLogicalFunctionPkgs | COMPOSITION | [0 \*] | LogicalFunctionPkg | *defined on type* |
| realizedSystemFunctions | ASSOCIATION | [0 \*] | SystemFunction | *defined on type* |
| realizingPhysicalFunctions | ASSOCIATION | [0 \*] | PhysicalFunction | *defined on type* |

## [Type] CapabilityRealizationPkg

Direct super types:

* PropertyValuePkgContainer

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* LogicalArchitecture
* CapabilityRealizationPkg
* PhysicalArchitecture
* EPBSArchitecture

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| ownedCapabilityRealizationPkgs | COMPOSITION | [0 \*] | CapabilityRealizationPkg | *defined on type* |
| ownedCapabilityRealizations | COMPOSITION | [0 \*] | CapabilityRealization | *defined on type* |

## [Type] CapabilityRealization

Direct super types:

* AbstractSystemCapability

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* CapabilityRealizationPkg

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| preCondition | ASSOCIATION | [1 1] | Constraint | AbstractCapability |
| postCondition | ASSOCIATION | [1 1] | Constraint | AbstractCapability |
| ownedScenarios | ASSOCIATION | [0 \*] | Scenario | AbstractCapability |
| super | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| sub | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| includedCapabilities | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| includingCapabilities | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| extendedCapabilities | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| extendingCapabilities | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| availableInStates | ASSOCIATION | [0 \*] | State | AbstractCapability |
| ownedFunctionalChains | COMPOSITION | [0 \*] | FunctionalChain | AbstractSystemCapability |
| involvedFunctionalChains | ASSOCIATION | [0 \*] | FunctionalChain | AbstractSystemCapability |
| involvedFunctions | ASSOCIATION | [0 \*] | Function | AbstractSystemCapability |
| realizedCapabilities | ASSOCIATION | [0 \*] | Capability | *defined on type* |
| realizedCapabilityRealizations | ASSOCIATION | [0 \*] | CapabilityRealization | *defined on type* |
| realizingCapabilityRealizations | ASSOCIATION | [0 \*] | CapabilityRealization | *defined on type* |
| involvedLogicalActors | ASSOCIATION | [0 \*] | LogicalActor | *defined on type* |
| involvedLogicalComponents | ASSOCIATION | [0 \*] | LogicalComponent | *defined on type* |
| involvedPhysicalComponents | ASSOCIATION | [0 \*] | PhysicalComponent | *defined on type* |
| involvedPhysicalActors | ASSOCIATION | [0 \*] | PhysicalActor | *defined on type* |

## [Type] LogicalComponentPkg

Direct super types:

* PropertyValuePkgContainer

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* LogicalArchitecture
* LogicalComponentPkg
* LogicalSystem
* LogicalComponent
* LogicalActor

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| ownedLogicalComponentPkgs | COMPOSITION | [1 1] | LogicalComponentPkg | *defined on type* |
| ownedLogicalSystem | COMPOSITION | [1 1] | LogicalSystem | *defined on type* |
| ownedLogicalActors | COMPOSITION | [0 \*] | LogicalActor | *defined on type* |
| ownedLogicalComponents | COMPOSITION | [0 \*] | LogicalComponent | *defined on type* |

## [Type] LogicalSystem

Direct super types:

* BehavioralComponent
* Node

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* LogicalComponentPkg

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| containedComponentPorts | COMPOSITION | [0 \*] | ComponentPort | BehavioralComponent |
| incomingComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | BehavioralComponent |
| outgoingComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | BehavioralComponent |
| inoutComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | BehavioralComponent |
| allocatedFunctions | ASSOCIATION | [0 \*] | Function | BehavioralComponent |
| usedInterfaces | ASSOCIATION | [0 \*] | Interface | BehavioralComponent |
| implementedInterfaces | ASSOCIATION | [0 \*] | Interface | BehavioralComponent |
| ownedStateMachines | COMPOSITION | [0 \*] | StateMachine | BehavioralComponent |
| containedPhysicalPorts | COMPOSITION | [0 \*] | PhysicalPort | Node |
| physicalLinks | ASSOCIATION | [0 \*] | PhysicalLink | Node |
| involvingPhysicalPaths | ASSOCIATION | [0 \*] | PhysicalPath | Node |
| ownedStateMachines | COMPOSITION | [0 \*] | StateMachine | Node |
| ownedLogicalComponents | COMPOSITION | [0 \*] | LogicalComponent | *defined on type* |
| ownedLogicalComponentPkgs | COMPOSITION | [0 \*] | LogicalComponentPkg | *defined on type* |

## [Type] LogicalComponent

Direct super types:

* BehavioralComponent

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* LogicalComponentPkg
* LogicalSystem
* LogicalComponent

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |
| isHuman | Boolean | *defined on type* |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| containedComponentPorts | COMPOSITION | [0 \*] | ComponentPort | BehavioralComponent |
| incomingComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | BehavioralComponent |
| outgoingComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | BehavioralComponent |
| inoutComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | BehavioralComponent |
| allocatedFunctions | ASSOCIATION | [0 \*] | Function | BehavioralComponent |
| usedInterfaces | ASSOCIATION | [0 \*] | Interface | BehavioralComponent |
| implementedInterfaces | ASSOCIATION | [0 \*] | Interface | BehavioralComponent |
| ownedStateMachines | COMPOSITION | [0 \*] | StateMachine | BehavioralComponent |
| ownedLogicalComponents | COMPOSITION | [0 \*] | LogicalComponent | *defined on type* |
| ownedLogicalComponentPkgs | COMPOSITION | [0 \*] | LogicalComponentPkg | *defined on type* |
| realizingBehaviorPCs | ASSOCIATION | [0 \*] | BehaviorPC | *defined on type* |
| involvingCapabilityRealizations | ASSOCIATION | [0 \*] | CapabilityRealization | *defined on type* |

## [Type] LogicalActor

Direct super types:

* BehavioralComponent
* Node

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* LogicalComponentPkg
* LogicalActor

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |
| isHuman | Boolean | *defined on type* |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| containedComponentPorts | COMPOSITION | [0 \*] | ComponentPort | BehavioralComponent |
| incomingComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | BehavioralComponent |
| outgoingComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | BehavioralComponent |
| inoutComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | BehavioralComponent |
| allocatedFunctions | ASSOCIATION | [0 \*] | Function | BehavioralComponent |
| usedInterfaces | ASSOCIATION | [0 \*] | Interface | BehavioralComponent |
| implementedInterfaces | ASSOCIATION | [0 \*] | Interface | BehavioralComponent |
| ownedStateMachines | COMPOSITION | [0 \*] | StateMachine | BehavioralComponent |
| containedPhysicalPorts | COMPOSITION | [0 \*] | PhysicalPort | Node |
| physicalLinks | ASSOCIATION | [0 \*] | PhysicalLink | Node |
| involvingPhysicalPaths | ASSOCIATION | [0 \*] | PhysicalPath | Node |
| ownedStateMachines | COMPOSITION | [0 \*] | StateMachine | Node |
| ownedLogicalActors | COMPOSITION | [0 \*] | LogicalActor | *defined on type* |
| ownedLogicalComponentPkgs | COMPOSITION | [0 \*] | LogicalComponentPkg | *defined on type* |
| realizedSystemActors | ASSOCIATION | [0 \*] | SystemActor | *defined on type* |
| realizingPhysicalActors | ASSOCIATION | [0 \*] | PhysicalActor | *defined on type* |
| involvingCapabilityRealizations | ASSOCIATION | [0 \*] | CapabilityRealization | *defined on type* |

# [Package] pa

## [Type] PhysicalArchitecture

Direct super types:

* PropertyValuePkgContainer

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* SystemEngineering

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| physicalFunctionPkg | COMPOSITION | [1 1] | PhysicalFunctionPkg | *defined on type* |
| capabilityRealizationPkg | COMPOSITION | [1 1] | CapabilityRealizationPkg | *defined on type* |
| interfacePkg | COMPOSITION | [1 1] | InterfacePkg | *defined on type* |
| dataPkg | COMPOSITION | [1 1] | DataPkg | *defined on type* |
| physicalComponentPkg | COMPOSITION | [1 1] | PhysicalComponentPkg | *defined on type* |

## [Type] PhysicalFunctionPkg

Direct super types:

* PropertyValuePkgContainer

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* PhysicalArchitecture
* PhysicalFunctionPkg
* PhysicalFunction

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| ownedPhysicalFunctionPkgs | COMPOSITION | [0 \*] | PhysicalFunctionPkg | *defined on type* |
| ownedPhysicalFunctions | COMPOSITION | [0 \*] | PhysicalFunction | *defined on type* |

## [Type] PhysicalFunction

Direct super types:

* Function

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* PhysicalFunctionPkg
* PhysicalFunction

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |
| kind | FunctionKind | Function |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| availableInStates | ASSOCIATION | [0 \*] | State | AbstractActivityFunction |
| inputs | COMPOSITION | [0 \*] | FunctionInputPort | Function |
| outputs | COMPOSITION | [0 \*] | FunctionOutputPort | Function |
| incoming | ASSOCIATION | [0 \*] | FunctionalExchange | Function |
| outgoing | ASSOCIATION | [0 \*] | FunctionalExchange | Function |
| allocatingComponent | ASSOCIATION | [0 1] | BehavioralComponent | Function |
| ownedFunctionalChains | COMPOSITION | [0 \*] | FunctionalChain | Function |
| involvingFunctionalChains | ASSOCIATION | [0 \*] | FunctionalChain | Function |
| involvingCapabilities | ASSOCIATION | [0 \*] | AbstractSystemCapability | Function |
| containedPhysicalFunctions | COMPOSITION | [0 \*] | PhysicalFunction | *defined on type* |
| ownedPhysicalFunctionPkgs | COMPOSITION | [0 \*] | PhysicalFunctionPkg | *defined on type* |
| realizedLogicalFunctions | ASSOCIATION | [0 \*] | LogicalFunction | *defined on type* |

## [Type] PhysicalComponentPkg

Direct super types:

* PropertyValuePkgContainer

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* PhysicalArchitecture
* PhysicalComponentPkg
* PhysicalSystem
* PhysicalComponent
* PhysicalActor

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| ownedPhysicalComponentPkgs | COMPOSITION | [0 \*] | PhysicalComponentPkg | *defined on type* |
| ownedPhysicalSystem | COMPOSITION | [1 1] | PhysicalSystem | *defined on type* |
| ownedPhysicalActors | COMPOSITION | [0 \*] | PhysicalActor | *defined on type* |
| ownedPhysicalComponents | COMPOSITION | [0 \*] | PhysicalComponent | *defined on type* |

## [Type] PhysicalSystem

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* PhysicalComponentPkg

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPhysicalComponents | COMPOSITION | [0 \*] | PhysicalComponent | *defined on type* |
| ownedPhysicalComponentPkgs | COMPOSITION | [0 \*] | PhysicalComponentPkg | *defined on type* |

## [Type] AbstractPhysicalArtifact [Abstract]

Direct super types:

* CapellaElement

Direct sub-types:

* PhysicalComponent
* PhysicalPort
* PhysicalLink

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| allocatorConfigurationItems | ASSOCIATION | [0 \*] | ConfigurationItem | *defined on type* |

## [Type] PhysicalComponent [Abstract]

Direct super types:

* AbstractPhysicalArtifact

Direct sub-types:

* BehaviorPC
* NodePC

Possible parent elements:

* PhysicalComponentPkg
* PhysicalSystem
* PhysicalComponent

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |
| kind | PhysicalComponentKind | *defined on type* |
| isHuman | Boolean | *defined on type* |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| allocatorConfigurationItems | ASSOCIATION | [0 \*] | ConfigurationItem | AbstractPhysicalArtifact |
| ownedPhysicalComponents | COMPOSITION | [0 \*] | PhysicalComponent | *defined on type* |
| ownedPhysicalComponentPkgs | COMPOSITION | [0 \*] | PhysicalComponentPkg | *defined on type* |
| involvingCapabilityRealizations | ASSOCIATION | [0 \*] | CapabilityRealization | *defined on type* |

## [Type] BehaviorPC

Direct super types:

* PhysicalComponent
* BehavioralComponent

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |
| kind | PhysicalComponentKind | PhysicalComponent |
| isHuman | Boolean | PhysicalComponent |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| allocatorConfigurationItems | ASSOCIATION | [0 \*] | ConfigurationItem | AbstractPhysicalArtifact |
| ownedPhysicalComponents | COMPOSITION | [0 \*] | PhysicalComponent | PhysicalComponent |
| ownedPhysicalComponentPkgs | COMPOSITION | [0 \*] | PhysicalComponentPkg | PhysicalComponent |
| involvingCapabilityRealizations | ASSOCIATION | [0 \*] | CapabilityRealization | PhysicalComponent |
| containedComponentPorts | COMPOSITION | [0 \*] | ComponentPort | BehavioralComponent |
| incomingComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | BehavioralComponent |
| outgoingComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | BehavioralComponent |
| inoutComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | BehavioralComponent |
| allocatedFunctions | ASSOCIATION | [0 \*] | Function | BehavioralComponent |
| usedInterfaces | ASSOCIATION | [0 \*] | Interface | BehavioralComponent |
| implementedInterfaces | ASSOCIATION | [0 \*] | Interface | BehavioralComponent |
| ownedStateMachines | COMPOSITION | [0 \*] | StateMachine | BehavioralComponent |
| deployingNodePC | ASSOCIATION | [0 1] | NodePC | *defined on type* |
| realizedLogicalComponents | ASSOCIATION | [0 \*] | LogicalComponent | *defined on type* |

## [Type] NodePC

Direct super types:

* PhysicalComponent
* CapellaElement
* Node

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |
| kind | PhysicalComponentKind | PhysicalComponent |
| isHuman | Boolean | PhysicalComponent |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| allocatorConfigurationItems | ASSOCIATION | [0 \*] | ConfigurationItem | AbstractPhysicalArtifact |
| ownedPhysicalComponents | COMPOSITION | [0 \*] | PhysicalComponent | PhysicalComponent |
| ownedPhysicalComponentPkgs | COMPOSITION | [0 \*] | PhysicalComponentPkg | PhysicalComponent |
| involvingCapabilityRealizations | ASSOCIATION | [0 \*] | CapabilityRealization | PhysicalComponent |
| containedPhysicalPorts | COMPOSITION | [0 \*] | PhysicalPort | Node |
| physicalLinks | ASSOCIATION | [0 \*] | PhysicalLink | Node |
| involvingPhysicalPaths | ASSOCIATION | [0 \*] | PhysicalPath | Node |
| ownedStateMachines | COMPOSITION | [0 \*] | StateMachine | Node |
| deployedBehaviorPCs | ASSOCIATION | [0 \*] | BehaviorPC | *defined on type* |

## [Type] PhysicalActor

Direct super types:

* BehavioralComponent
* Node

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* PhysicalComponentPkg
* PhysicalActor

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |
| isHuman | Boolean | *defined on type* |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| containedComponentPorts | COMPOSITION | [0 \*] | ComponentPort | BehavioralComponent |
| incomingComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | BehavioralComponent |
| outgoingComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | BehavioralComponent |
| inoutComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | BehavioralComponent |
| allocatedFunctions | ASSOCIATION | [0 \*] | Function | BehavioralComponent |
| usedInterfaces | ASSOCIATION | [0 \*] | Interface | BehavioralComponent |
| implementedInterfaces | ASSOCIATION | [0 \*] | Interface | BehavioralComponent |
| ownedStateMachines | COMPOSITION | [0 \*] | StateMachine | BehavioralComponent |
| containedPhysicalPorts | COMPOSITION | [0 \*] | PhysicalPort | Node |
| physicalLinks | ASSOCIATION | [0 \*] | PhysicalLink | Node |
| involvingPhysicalPaths | ASSOCIATION | [0 \*] | PhysicalPath | Node |
| ownedStateMachines | COMPOSITION | [0 \*] | StateMachine | Node |
| ownedPhysicalActors | COMPOSITION | [0 \*] | PhysicalActor | *defined on type* |
| ownedPhysicalComponentPkgs | COMPOSITION | [0 \*] | PhysicalComponentPkg | *defined on type* |
| realizedLogicalActors | ASSOCIATION | [0 \*] | LogicalActor | *defined on type* |
| involvingCapabilityRealizations | ASSOCIATION | [0 \*] | CapabilityRealization | *defined on type* |

## [Enumeration] PhysicalComponentKind

List of values:

* UNSET
* HARDWARE
* HARDWARE\_COMPUTER
* SOFTWARE
* SOFTWARE\_DEPLOYMENT\_UNIT
* SOFTWARE\_EXECUTION\_UNIT
* SOFTWARE\_APPLICATION
* FIRMWARE
* PERSON
* FACILITIES
* DATA
* MATERIALS
* SERVICES
* PROCESSES

Used by:

* PhysicalComponent
* BehaviorPC
* NodePC

# [Package] epbs

## [Type] EPBSArchitecture

Direct super types:

* PropertyValuePkgContainer

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* SystemEngineering

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| capabilityRealizationPkg | COMPOSITION | [1 1] | CapabilityRealizationPkg | *defined on type* |
| configurationItemPkg | COMPOSITION | [1 1] | ConfigurationItemPkg | *defined on type* |
| dataPkg | COMPOSITION | [1 1] | DataPkg | *defined on type* |

## [Type] ConfigurationItemPkg

Direct super types:

* PropertyValuePkgContainer

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* EPBSArchitecture
* ConfigurationItemPkg
* ConfigurationItem

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| ownedConfigurationItemPkgs | COMPOSITION | [0 \*] | ConfigurationItemPkg | *defined on type* |
| ownedConfigurationItems | COMPOSITION | [0 \*] | ConfigurationItem | *defined on type* |

## [Type] ConfigurationItem

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* ConfigurationItemPkg
* ConfigurationItem

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |
| itemIdentifier | String | *defined on type* |
| kind | ConfigurationItemKind | *defined on type* |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedConfigurationItems | COMPOSITION | [0 \*] | ConfigurationItem | *defined on type* |
| ownedConfigurationItemPkgs | COMPOSITION | [0 \*] | ConfigurationItemPkg | *defined on type* |
| allocatedPhysicalArtifacts | ASSOCIATION | [0 \*] | AbstractPhysicalArtifact | *defined on type* |

## [Enumeration] ConfigurationItemKind

List of values:

* Unset
* COTSCI
* CSCI
* HWCI
* InterfaceCI
* NDICI
* PrimeItemCI
* SystemCI

Used by:

* ConfigurationItem

# [Package] statemachine

## [Type] StateMachine

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* OperationalActor
* Node
* BehavioralComponent

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedRegions | COMPOSITION | [0 \*] | Region | *defined on type* |

## [Type] AbstractState [Abstract]

Direct super types:

* CapellaElement

Direct sub-types:

* State
* Pseudostate

Possible parent elements:

* Region

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| incoming | ASSOCIATION | [0 \*] | StateTransition | *defined on type* |
| outgoing | ASSOCIATION | [0 \*] | StateTransition | *defined on type* |
| realizedStates | ASSOCIATION | [0 \*] | AbstractState | *defined on type* |
| realizingStates | ASSOCIATION | [0 \*] | AbstractState | *defined on type* |

## [Type] State

Direct super types:

* AbstractState

Direct sub-types:

* Mode

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| incoming | ASSOCIATION | [0 \*] | StateTransition | AbstractState |
| outgoing | ASSOCIATION | [0 \*] | StateTransition | AbstractState |
| realizedStates | ASSOCIATION | [0 \*] | AbstractState | AbstractState |
| realizingStates | ASSOCIATION | [0 \*] | AbstractState | AbstractState |
| ownedRegions | COMPOSITION | [0 \*] | Region | *defined on type* |
| availableActivities/Functions | ASSOCIATION | [0 \*] | AbstractActivityFunction | *defined on type* |
| entry | ASSOCIATION | [0 \*] | AbstractActivityFunction | *defined on type* |
| do | ASSOCIATION | [0 \*] | AbstractActivityFunction | *defined on type* |
| exit | ASSOCIATION | [0 \*] | AbstractActivityFunction | *defined on type* |
| availableFunctionalChains | ASSOCIATION | [0 \*] | FunctionalChain | *defined on type* |
| availableOperationalProcesses | ASSOCIATION | [0 \*] | OperationalProcess | *defined on type* |
| availableCapabilities | ASSOCIATION | [0 \*] | AbstractCapability | *defined on type* |

## [Type] Mode

Direct super types:

* State

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| incoming | ASSOCIATION | [0 \*] | StateTransition | AbstractState |
| outgoing | ASSOCIATION | [0 \*] | StateTransition | AbstractState |
| realizedStates | ASSOCIATION | [0 \*] | AbstractState | AbstractState |
| realizingStates | ASSOCIATION | [0 \*] | AbstractState | AbstractState |
| ownedRegions | COMPOSITION | [0 \*] | Region | State |
| availableActivities/Functions | ASSOCIATION | [0 \*] | AbstractActivityFunction | State |
| entry | ASSOCIATION | [0 \*] | AbstractActivityFunction | State |
| do | ASSOCIATION | [0 \*] | AbstractActivityFunction | State |
| exit | ASSOCIATION | [0 \*] | AbstractActivityFunction | State |
| availableFunctionalChains | ASSOCIATION | [0 \*] | FunctionalChain | State |
| availableOperationalProcesses | ASSOCIATION | [0 \*] | OperationalProcess | State |
| availableCapabilities | ASSOCIATION | [0 \*] | AbstractCapability | State |

## [Type] Pseudostate

Direct super types:

* AbstractState

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |
| kind | PseudoStateKind | *defined on type* |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| incoming | ASSOCIATION | [0 \*] | StateTransition | AbstractState |
| outgoing | ASSOCIATION | [0 \*] | StateTransition | AbstractState |
| realizedStates | ASSOCIATION | [0 \*] | AbstractState | AbstractState |
| realizingStates | ASSOCIATION | [0 \*] | AbstractState | AbstractState |

## [Type] Region

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* StateMachine
* State

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedStates | COMPOSITION | [0 \*] | AbstractState | *defined on type* |

## [Type] StateTransition

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |
| triggerDescription | String | *defined on type* |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| source | ASSOCIATION | [1 1] | AbstractState | *defined on type* |
| target | ASSOCIATION | [1 1] | AbstractState | *defined on type* |
| guard | ASSOCIATION | [0 1] | Constraint | *defined on type* |
| realizedStateTransitions | ASSOCIATION | [0 \*] | StateTransition | *defined on type* |
| realizingStateTransitions | ASSOCIATION | [0 \*] | StateTransition | *defined on type* |

## [Type] ChangeEvent

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] TimeEvent

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] AbstractActivityFunction [Abstract]

Direct super types:

* CapellaElement

Direct sub-types:

* OperationalActivity
* Function

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| availableInStates | ASSOCIATION | [0 \*] | State | *defined on type* |

## [Enumeration] PseudoStateKind

List of values:

* InitialPseudoState
* JoinPseudoState
* ForkPseudoState
* ChoicePseudoState
* TerminatePseudoState
* ShallowHistoryPseudoState
* DeepHistoryPseudoState
* EntryPointPseudoState
* ExitPointPseudoState
* FinalState

Used by:

* Pseudostate

# [Package] scenario

## [Type] Scenario

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |
| kind | ScenarioKind | *defined on type* |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| preCondition | ASSOCIATION | [0 1] | Constraint | *defined on type* |
| postCondition | ASSOCIATION | [0 1] | Constraint | *defined on type* |
| ownedInstanceRoles | COMPOSITION | [0 \*] | InstanceRole | *defined on type* |
| ownedMessages | COMPOSITION | [0 \*] | SequenceMessage | *defined on type* |
| ownedStateFragments | COMPOSITION | [0 \*] | StateFragment | *defined on type* |
| ownedConstraintDurations | COMPOSITION | [0 \*] | ConstraintDuration | *defined on type* |
| referencedScenarios | ASSOCIATION | [0 \*] | Scenario | *defined on type* |
| realizedScenarios | ASSOCIATION | [0 \*] | Scenario | *defined on type* |
| realizingScenarios | ASSOCIATION | [0 \*] | Scenario | *defined on type* |

## [Type] InstanceRole

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* Scenario

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] SequenceMessage

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* Scenario

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] StateFragment

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* Scenario

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] ConstraintDuration

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* Scenario

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] SequenceMessageValuation

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Enumeration] ScenarioKind

List of values:

* INTERFACE
* DATA\_FLOW
* INTERACTION
* FUNCTIONAL

Used by:

* Scenario

# [Package] cs

## [Type] Node [Abstract]

Direct super types:

*No direct super type*

Direct sub-types:

* System
* SystemActor
* LogicalSystem
* LogicalActor
* NodePC
* PhysicalActor

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| containedPhysicalPorts | COMPOSITION | [0 \*] | PhysicalPort | *defined on type* |
| physicalLinks | ASSOCIATION | [0 \*] | PhysicalLink | *defined on type* |
| involvingPhysicalPaths | ASSOCIATION | [0 \*] | PhysicalPath | *defined on type* |
| ownedStateMachines | COMPOSITION | [0 \*] | StateMachine | *defined on type* |

## [Type] PhysicalPort

Direct super types:

* AbstractPhysicalArtifact

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* Node

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| allocatorConfigurationItems | ASSOCIATION | [0 \*] | ConfigurationItem | AbstractPhysicalArtifact |
| physicalLinks | ASSOCIATION | [0 \*] | PhysicalLink | *defined on type* |
| allocatedComponentPorts | ASSOCIATION | [0 \*] | ComponentPort | *defined on type* |
| realizedPhysicalPorts | ASSOCIATION | [0 \*] | PhysicalPort | *defined on type* |
| realizingPhysicalPorts | ASSOCIATION | [0 \*] | PhysicalPort | *defined on type* |

## [Type] PhysicalLink

Direct super types:

* AbstractPhysicalArtifact

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| allocatorConfigurationItems | ASSOCIATION | [0 \*] | ConfigurationItem | AbstractPhysicalArtifact |
| connectedPhysicalPorts | ASSOCIATION | [2 2] | PhysicalPort | *defined on type* |
| categories | ASSOCIATION | [0 \*] | PhysicalLinkCategory | *defined on type* |
| involvingPhysicalPaths | ASSOCIATION | [0 \*] | PhysicalPath | *defined on type* |
| connectedComponents | ASSOCIATION | [2 2] | Node | *defined on type* |
| allocatedComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | *defined on type* |
| realizedPhysicalLinks | ASSOCIATION | [0 \*] | PhysicalLink | *defined on type* |
| realizingPhysicalLinks | ASSOCIATION | [0 \*] | PhysicalLink | *defined on type* |

## [Type] PhysicalLinkCategory

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| links | ASSOCIATION | [0 \*] | PhysicalLink | *defined on type* |

## [Type] PhysicalPath

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| involvedPhysicalLinks | ASSOCIATION | [0 \*] | PhysicalLink | *defined on type* |
| involvedNodePCs | ASSOCIATION | [0 \*] | Node | *defined on type* |
| allocatedComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | *defined on type* |
| realizedPhysicalPaths | ASSOCIATION | [0 \*] | PhysicalPath | *defined on type* |
| realizingPhysicalPaths | ASSOCIATION | [0 \*] | PhysicalPath | *defined on type* |

## [Type] InterfacePkg

Direct super types:

* PropertyValuePkgContainer

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* OperationalAnalysis
* SystemAnalysis
* LogicalArchitecture
* PhysicalArchitecture
* InterfacePkg

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| ownedInterfacePkgs | COMPOSITION | [0 \*] | InterfacePkg | *defined on type* |
| ownedInterfaces | COMPOSITION | [0 \*] | Interface | *defined on type* |
| ownedExchangeItems | COMPOSITION | [0 \*] | ExchangeItem | *defined on type* |

## [Type] Interface

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* InterfacePkg

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |
| visibility | VisibilityKind | *defined on type* |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| exchangeItems | ASSOCIATION | [0 \*] | ExchangeItem | *defined on type* |
| providingComponentPorts | ASSOCIATION | [0 \*] | ComponentPort | *defined on type* |
| requiringComponentPorts | ASSOCIATION | [0 \*] | ComponentPort | *defined on type* |
| userComponents | ASSOCIATION | [0 \*] | BehavioralComponent | *defined on type* |
| implementorComponents | ASSOCIATION | [0 \*] | BehavioralComponent | *defined on type* |
| super | ASSOCIATION | [0 \*] | Interface | *defined on type* |
| sub | ASSOCIATION | [0 \*] | Interface | *defined on type* |

## [Type] ExchangeItem

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* InterfacePkg

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |
| abstract | Boolean | *defined on type* |
| final | Boolean | *defined on type* |
| exchangeMechanism | ExchangeMechanism | *defined on type* |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedElements | COMPOSITION | [0 \*] | ExchangeItemElement | *defined on type* |
| allocatorInterfaces | ASSOCIATION | [0 \*] | Interface | *defined on type* |
| super | ASSOCIATION | [0 \*] | ExchangeItem | *defined on type* |
| sub | ASSOCIATION | [0 \*] | ExchangeItem | *defined on type* |
| realizedExchangeItems | ASSOCIATION | [0 \*] | ExchangeItem | *defined on type* |
| realizingExchangeItems | ASSOCIATION | [0 \*] | ExchangeItem | *defined on type* |

## [Type] ExchangeItemElement

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* ExchangeItem

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |

## [Enumeration] ExchangeMechanism

List of values:

* UNSET
* FLOW
* OPERATION
* EVENT
* SHARED\_DATA

Used by:

* ExchangeItem

# [Package] fa

## [Type] Function [Abstract]

Direct super types:

* AbstractActivityFunction

Direct sub-types:

* SystemFunction
* LogicalFunction
* PhysicalFunction

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |
| kind | FunctionKind | *defined on type* |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| availableInStates | ASSOCIATION | [0 \*] | State | AbstractActivityFunction |
| inputs | COMPOSITION | [0 \*] | FunctionInputPort | *defined on type* |
| outputs | COMPOSITION | [0 \*] | FunctionOutputPort | *defined on type* |
| incoming | ASSOCIATION | [0 \*] | FunctionalExchange | *defined on type* |
| outgoing | ASSOCIATION | [0 \*] | FunctionalExchange | *defined on type* |
| allocatingComponent | ASSOCIATION | [0 1] | BehavioralComponent | *defined on type* |
| ownedFunctionalChains | COMPOSITION | [0 \*] | FunctionalChain | *defined on type* |
| involvingFunctionalChains | ASSOCIATION | [0 \*] | FunctionalChain | *defined on type* |
| involvingCapabilities | ASSOCIATION | [0 \*] | AbstractSystemCapability | *defined on type* |

## [Type] FunctionPort [Abstract]

Direct super types:

* CapellaElement

Direct sub-types:

* FunctionInputPort
* FunctionOutputPort

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| allocatorComponentPort | ASSOCIATION | [0 1] | ComponentPort | *defined on type* |

## [Type] FunctionInputPort

Direct super types:

* FunctionPort

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* Function

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| allocatorComponentPort | ASSOCIATION | [0 1] | ComponentPort | FunctionPort |
| incomingFunctionalExchanges | ASSOCIATION | [0 \*] | FunctionalExchange | *defined on type* |
| incomingExchangeItems | ASSOCIATION | [0 \*] | ExchangeItem | *defined on type* |
| realizedFunctionInputPorts | ASSOCIATION | [0 \*] | FunctionInputPort | *defined on type* |
| realizingFunctionInputPorts | ASSOCIATION | [0 \*] | FunctionInputPort | *defined on type* |

## [Type] FunctionOutputPort

Direct super types:

* FunctionPort

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* Function

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| allocatorComponentPort | ASSOCIATION | [0 1] | ComponentPort | FunctionPort |
| outgoingFunctionalExchanges | ASSOCIATION | [0 \*] | FunctionalExchange | *defined on type* |
| outgoingExchangeItems | ASSOCIATION | [0 \*] | ExchangeItem | *defined on type* |
| realizedFunctionOutputPorts | ASSOCIATION | [0 \*] | FunctionOutputPort | *defined on type* |
| realizingFunctionOutputPorts | ASSOCIATION | [0 \*] | FunctionOutputPort | *defined on type* |

## [Type] FunctionalExchange

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| source | ASSOCIATION | [1 1] | FunctionOutputPort | *defined on type* |
| target | ASSOCIATION | [1 1] | FunctionInputPort | *defined on type* |
| exchangedItems | ASSOCIATION | [0 \*] | ExchangeItem | *defined on type* |
| involvingFunctionalChains | ASSOCIATION | [0 \*] | FunctionalChain | *defined on type* |
| categories | ASSOCIATION | [0 \*] | ExchangeCategory | *defined on type* |
| allocatingComponentExchange | ASSOCIATION | [0 1] | ComponentExchange | *defined on type* |
| realizedFunctionalExchanges | ASSOCIATION | [0 \*] | FunctionalExchange | *defined on type* |
| realizingFunctionalExchanges | ASSOCIATION | [0 \*] | FunctionalExchange | *defined on type* |
| realizedInteractions | ASSOCIATION | [0 \*] | Interaction | *defined on type* |

## [Type] ExchangeCategory

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| exchanges | ASSOCIATION | [0 \*] | FunctionalExchange | *defined on type* |

## [Type] FunctionalChain

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* Function
* AbstractSystemCapability

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| preCondition | ASSOCIATION | [0 1] | Constraint | *defined on type* |
| postCondition | ASSOCIATION | [0 1] | Constraint | *defined on type* |
| involvedFunctions | ASSOCIATION | [0 \*] | Function | *defined on type* |
| involvedFunctionalExchanges | ASSOCIATION | [0 \*] | FunctionalExchange | *defined on type* |
| involvedFunctionalChains | ASSOCIATION | [0 \*] | FunctionalChain | *defined on type* |
| involvingCapabilities | ASSOCIATION | [0 \*] | AbstractSystemCapability | *defined on type* |
| availableInStates | ASSOCIATION | [0 \*] | State | *defined on type* |
| realizedOperationalProcesses | ASSOCIATION | [0 \*] | OperationalProcess | *defined on type* |
| realizedFunctionalChains | ASSOCIATION | [0 \*] | FunctionalChain | *defined on type* |
| realizingFunctionalChains | ASSOCIATION | [0 \*] | FunctionalChain | *defined on type* |

## [Type] BehavioralComponent [Abstract]

Direct super types:

* CapellaElement

Direct sub-types:

* System
* SystemActor
* LogicalSystem
* LogicalComponent
* LogicalActor
* BehaviorPC
* PhysicalActor

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| containedComponentPorts | COMPOSITION | [0 \*] | ComponentPort | *defined on type* |
| incomingComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | *defined on type* |
| outgoingComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | *defined on type* |
| inoutComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | *defined on type* |
| allocatedFunctions | ASSOCIATION | [0 \*] | Function | *defined on type* |
| usedInterfaces | ASSOCIATION | [0 \*] | Interface | *defined on type* |
| implementedInterfaces | ASSOCIATION | [0 \*] | Interface | *defined on type* |
| ownedStateMachines | COMPOSITION | [0 \*] | StateMachine | *defined on type* |

## [Type] ComponentPort

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* BehavioralComponent

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |
| orientation | OrientationPortKind | *defined on type* |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| componentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | *defined on type* |
| allocatedFunctionPorts | ASSOCIATION | [0 \*] | FunctionPort | *defined on type* |
| providedInterfaces | ASSOCIATION | [0 \*] | Interface | *defined on type* |
| requiredInterfaces | ASSOCIATION | [0 \*] | Interface | *defined on type* |
| allocatingPhysicalPorts | ASSOCIATION | [0 1] | PhysicalPort | *defined on type* |
| realizedComponentPorts | ASSOCIATION | [0 \*] | ComponentPort | *defined on type* |
| realizingComponentPorts | ASSOCIATION | [0 \*] | ComponentPort | *defined on type* |

## [Type] ComponentExchange

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |
| kind | ComponentExchangeKind | *defined on type* |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| connectedComponentPorts | ASSOCIATION | [2 2] | ComponentPort | *defined on type* |
| connectedComponents | ASSOCIATION | [2 2] | BehavioralComponent | *defined on type* |
| categories | ASSOCIATION | [0 \*] | ComponentExchangeCategory | *defined on type* |
| allocatedFunctionalExchanges | ASSOCIATION | [0 \*] | FunctionalExchange | *defined on type* |
| convoyedInformations | ASSOCIATION | [0 \*] | ExchangeItem | *defined on type* |
| allocatingPhysicalLink | ASSOCIATION | [0 1] | PhysicalLink | *defined on type* |
| allocatingPhysicalPath | ASSOCIATION | [0 1] | PhysicalPath | *defined on type* |
| realizedCommunicationMeans | ASSOCIATION | [0 \*] | CommunicationMean | *defined on type* |
| realizedComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | *defined on type* |
| realizingComponentExchanges | ASSOCIATION | [0 \*] | ComponentExchange | *defined on type* |

## [Type] ComponentExchangeCategory

Direct super types:

* CapellaElement

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| exchanges | ASSOCIATION | [0 \*] | ComponentExchange | *defined on type* |

## [Type] AbstractCapability [Abstract]

Direct super types:

* PropertyValuePkgContainer

Direct sub-types:

* OperationalCapability
* AbstractSystemCapability

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| preCondition | ASSOCIATION | [1 1] | Constraint | *defined on type* |
| postCondition | ASSOCIATION | [1 1] | Constraint | *defined on type* |
| ownedScenarios | ASSOCIATION | [0 \*] | Scenario | *defined on type* |
| super | ASSOCIATION | [0 \*] | AbstractCapability | *defined on type* |
| sub | ASSOCIATION | [0 \*] | AbstractCapability | *defined on type* |
| includedCapabilities | ASSOCIATION | [0 \*] | AbstractCapability | *defined on type* |
| includingCapabilities | ASSOCIATION | [0 \*] | AbstractCapability | *defined on type* |
| extendedCapabilities | ASSOCIATION | [0 \*] | AbstractCapability | *defined on type* |
| extendingCapabilities | ASSOCIATION | [0 \*] | AbstractCapability | *defined on type* |
| availableInStates | ASSOCIATION | [0 \*] | State | *defined on type* |

## [Type] AbstractSystemCapability [Abstract]

Direct super types:

* AbstractCapability

Direct sub-types:

* Capability
* CapabilityRealization

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | CapellaElement |
| sid | String | CapellaElement |
| name | String | CapellaElement |
| summary | String | CapellaElement |
| description | String | CapellaElement |
| status | Status | CapellaElement |
| review | String | CapellaElement |
| visibleInDocumentation | Boolean | CapellaElement |
| visibleForTraceability | Boolean | CapellaElement |

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| ownedDiagrams | COMPOSITION | [0 \*] | Diagram | EObject |
| elementOfInterestForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| contextualElementForDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| representingDiagrams | ASSOCIATION | [0 \*] | Diagram | EObject |
| ownedConstraints | COMPOSITION | [0 \*] | Constraint | CapellaElement |
| constraints | ASSOCIATION | [0 \*] | Constraint | CapellaElement |
| ownedPropertyValues | COMPOSITION | [0 \*] | PropertyValue | CapellaElement |
| appliedPropertyValues | ASSOCIATION | [0 \*] | PropertyValue | CapellaElement |
| ownedPropertyValueGroups | COMPOSITION | [0 \*] | PropertyValueGroup | CapellaElement |
| appliedPropertyValueGroups | ASSOCIATION | [0 \*] | PropertyValueGroup | CapellaElement |
| ownedEnumerationPropertyTypes | COMPOSITION | [0 \*] | EnumerationPropertyType | CapellaElement |
| ownedPropertyValuePkgs | COMPOSITION | [0 \*] | PropertyValuePkg | PropertyValuePkgContainer |
| preCondition | ASSOCIATION | [1 1] | Constraint | AbstractCapability |
| postCondition | ASSOCIATION | [1 1] | Constraint | AbstractCapability |
| ownedScenarios | ASSOCIATION | [0 \*] | Scenario | AbstractCapability |
| super | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| sub | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| includedCapabilities | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| includingCapabilities | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| extendedCapabilities | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| extendingCapabilities | ASSOCIATION | [0 \*] | AbstractCapability | AbstractCapability |
| availableInStates | ASSOCIATION | [0 \*] | State | AbstractCapability |
| ownedFunctionalChains | COMPOSITION | [0 \*] | FunctionalChain | *defined on type* |
| involvedFunctionalChains | ASSOCIATION | [0 \*] | FunctionalChain | *defined on type* |
| involvedFunctions | ASSOCIATION | [0 \*] | Function | *defined on type* |

## [Enumeration] FunctionKind

List of values:

* FUNCTION
* DUPLICATE
* GATHER
* SELECT
* SPLIT
* ROUTE

Used by:

* SystemFunction
* LogicalFunction
* PhysicalFunction
* Function

## [Enumeration] OrientationPortKind

List of values:

* UNSET
* IN
* OUT
* INOUT

Used by:

* ComponentPort

## [Enumeration] ComponentExchangeKind

List of values:

* UNSET
* DELEGATION
* ASSEMBLY
* FLOW

Used by:

* ComponentExchange

# [Package] communication

## [Type] Exception

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] Message

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] MessageReference

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] Signal

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] SignalInstance

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

# [Package] datavalue

## [Type] LiteralBooleanValue

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] BooleanReference

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] EnumerationLiteral

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] EnumerationReference

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] LiteralStringValue

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] StringReference

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] LiteralNumericValue

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] NumericReference

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] ComplexValue

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] ComplexValueReference

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] BinaryExpression

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] UnaryExpression

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] OpaqueExpression

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

# [Package] classes

## [Type] Association

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] Class

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] Collection

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] CollectionValue

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] CollectionValueReference

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] DataPkg

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* OperationalAnalysis
* SystemAnalysis
* LogicalArchitecture
* PhysicalArchitecture
* EPBSArchitecture

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] Parameter

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] Property

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] Service

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] Union

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] UnionProperty

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] Unit

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

# [Package] datatype

## [Type] BooleanType

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] Enumeration

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] StringType

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] NumericType

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

## [Type] PhysicalQuantity

Direct super types:

*No direct super type*

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*