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.
* **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* |

Methods:

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **Description** | **IN Param** | **Result** |
| getDiagrams |  | diagramType: String | diags: Diagram |

## [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** |

Methods:

*No method defined*

## [Type] SystemEngineering

Direct super types:

* **PropertyValuePkgContainer**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* CapellaModel
* CapellaLibrary

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* |

Methods:

*No method defined*

# [Package] capellacore

## [Type] EObject [Abstract]

Direct super types:

*No direct super type*

Direct sub-types:

* **CapellaElement**
* **AbstractReElement**
* **CapellaModule**
* **Requirement**
* **Attribute**

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* |

Methods:

*No method defined*

## [Type] CapellaElement [Abstract]

Direct super types:

* **EObject**

Direct sub-types:

* **Constraint**
* **PropertyValue**
* **PropertyValueGroup**
* **EnumerationPropertyType**
* **EnumerationPropertyLiteral**
* **PropertyValuePkgContainer**
* **OperationalProcess**
* **OperationalActor**
* **CommunicationMean**
* **Mission**
* **PhysicalSystem**
* **AbstractPhysicalArtifact**
* **NodePC**
* **ConfigurationItem**
* **StateMachine**
* **AbstractState**
* **Region**
* **StateTransition**
* **AbstractActivityFunction**
* **AbstractEvent**
* **Scenario**
* **InstanceRole**
* **SequenceMessage**
* **StateFragment**
* **CombinedFragment**
* **Operand**
* **ConstraintDuration**
* **PhysicalLinkCategory**
* **PhysicalPath**
* **Interface**
* **ExchangeItemAllocation**
* **ExchangeItem**
* **ExchangeItemElement**
* **FunctionPort**
* **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* |

Methods:

*No method defined*

## [Type] Constraint

Direct super types:

* **CapellaElement**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* SystemEngineering
* Constraint
* PropertyValue
* PropertyValueGroup
* PropertyValuePkg
* EnumerationPropertyType
* EnumerationPropertyLiteral
* 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
* BehaviorPC
* NodePC
* PhysicalActor
* EPBSArchitecture
* ConfigurationItemPkg
* ConfigurationItem
* StateMachine
* State
* Mode
* Pseudostate
* Region
* StateTransition
* ChangeEvent
* TimeEvent
* Scenario
* InstanceRole
* SequenceMessage
* StateFragment
* CombinedFragment
* Operand
* ConstraintDuration
* PhysicalPort
* PhysicalLink
* PhysicalLinkCategory
* PhysicalPath
* InterfacePkg
* Interface
* ExchangeItemAllocation
* ExchangeItem
* ExchangeItemElement
* FunctionInputPort
* FunctionOutputPort
* FunctionalExchange
* ExchangeCategory
* FunctionalChain
* ComponentPort
* ComponentExchange
* ComponentExchangeCategory

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* |

Methods:

*No method defined*

## [Type] PropertyValue

Direct super types:

* **CapellaElement**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* SystemEngineering
* Constraint
* PropertyValue
* PropertyValueGroup
* PropertyValuePkg
* EnumerationPropertyType
* EnumerationPropertyLiteral
* 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
* BehaviorPC
* NodePC
* PhysicalActor
* EPBSArchitecture
* ConfigurationItemPkg
* ConfigurationItem
* StateMachine
* State
* Mode
* Pseudostate
* Region
* StateTransition
* ChangeEvent
* TimeEvent
* Scenario
* InstanceRole
* SequenceMessage
* StateFragment
* CombinedFragment
* Operand
* ConstraintDuration
* PhysicalPort
* PhysicalLink
* PhysicalLinkCategory
* PhysicalPath
* InterfacePkg
* Interface
* ExchangeItemAllocation
* ExchangeItem
* ExchangeItemElement
* FunctionInputPort
* FunctionOutputPort
* FunctionalExchange
* ExchangeCategory
* FunctionalChain
* ComponentPort
* ComponentExchange
* ComponentExchangeCategory

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* |

Methods:

*No method defined*

## [Type] PropertyValueGroup

Direct super types:

* **CapellaElement**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* SystemEngineering
* Constraint
* PropertyValue
* PropertyValueGroup
* PropertyValuePkg
* EnumerationPropertyType
* EnumerationPropertyLiteral
* 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
* BehaviorPC
* NodePC
* PhysicalActor
* EPBSArchitecture
* ConfigurationItemPkg
* ConfigurationItem
* StateMachine
* State
* Mode
* Pseudostate
* Region
* StateTransition
* ChangeEvent
* TimeEvent
* Scenario
* InstanceRole
* SequenceMessage
* StateFragment
* CombinedFragment
* Operand
* ConstraintDuration
* PhysicalPort
* PhysicalLink
* PhysicalLinkCategory
* PhysicalPath
* InterfacePkg
* Interface
* ExchangeItemAllocation
* ExchangeItem
* ExchangeItemElement
* FunctionInputPort
* FunctionOutputPort
* FunctionalExchange
* ExchangeCategory
* FunctionalChain
* ComponentPort
* ComponentExchange
* ComponentExchangeCategory

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* |

Methods:

*No method defined*

## [Type] PropertyValuePkg

Direct super types:

* **PropertyValuePkgContainer**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* SystemEngineering
* PropertyValuePkg
* OperationalAnalysis
* OperationalActivityPkg
* OperationalCapabilityPkg
* OperationalCapability
* EntityPkg
* SystemAnalysis
* SystemFunctionPkg
* CapabilityPkg
* Capability
* SystemComponentPkg
* MissionPkg
* LogicalArchitecture
* LogicalFunctionPkg
* CapabilityRealizationPkg
* CapabilityRealization
* LogicalComponentPkg
* PhysicalArchitecture
* PhysicalFunctionPkg
* PhysicalComponentPkg
* EPBSArchitecture
* ConfigurationItemPkg
* 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** |

Methods:

*No method defined*

## [Type] EnumerationPropertyType

Direct super types:

* **CapellaElement**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* SystemEngineering
* Constraint
* PropertyValue
* PropertyValueGroup
* PropertyValuePkg
* EnumerationPropertyType
* EnumerationPropertyLiteral
* 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
* BehaviorPC
* NodePC
* PhysicalActor
* EPBSArchitecture
* ConfigurationItemPkg
* ConfigurationItem
* StateMachine
* State
* Mode
* Pseudostate
* Region
* StateTransition
* ChangeEvent
* TimeEvent
* Scenario
* InstanceRole
* SequenceMessage
* StateFragment
* CombinedFragment
* Operand
* ConstraintDuration
* PhysicalPort
* PhysicalLink
* PhysicalLinkCategory
* PhysicalPath
* InterfacePkg
* Interface
* ExchangeItemAllocation
* ExchangeItem
* ExchangeItemElement
* FunctionInputPort
* FunctionOutputPort
* FunctionalExchange
* ExchangeCategory
* FunctionalChain
* ComponentPort
* ComponentExchange
* ComponentExchangeCategory

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* |

Methods:

*No method defined*

## [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** |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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**
* **ChangeEvent**
* **TimeEvent**
* **AbstractActivityFunction**
* **AbstractEvent**
* **Scenario**
* **InstanceRole**
* **SequenceMessage**
* **StateFragment**
* **CombinedFragment**
* **Operand**
* **ConstraintDuration**
* **PhysicalPort**
* **PhysicalLink**
* **PhysicalLinkCategory**
* **PhysicalPath**
* **InterfacePkg**
* **Interface**
* **ExchangeItemAllocation**
* **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:

* SystemEngineering
* Constraint
* PropertyValue
* PropertyValueGroup
* PropertyValuePkg
* EnumerationPropertyType
* EnumerationPropertyLiteral
* REC
* RPL
* CatalogElementPkg
* RecCatalog
* CompliancyDefinitionPkg
* CompliancyDefinition
* 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
* BehaviorPC
* NodePC
* PhysicalActor
* EPBSArchitecture
* ConfigurationItemPkg
* ConfigurationItem
* StateMachine
* State
* Mode
* Pseudostate
* Region
* StateTransition
* ChangeEvent
* TimeEvent
* Scenario
* InstanceRole
* SequenceMessage
* StateFragment
* CombinedFragment
* Operand
* ConstraintDuration
* PhysicalPort
* PhysicalLink
* PhysicalLinkCategory
* PhysicalPath
* InterfacePkg
* Interface
* ExchangeItemAllocation
* ExchangeItem
* ExchangeItemElement
* FunctionInputPort
* FunctionOutputPort
* FunctionalExchange
* ExchangeCategory
* FunctionalChain
* ComponentPort
* ComponentExchange
* ComponentExchangeCategory
* CapellaModule
* Requirement
* Folder
* Attribute

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* |

Methods:

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **Description** | **IN Param** | **Result** |
| exportAsImage |  | filePath: String |  |

# [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** |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [Type] REC

Direct super types:

* **AbstractCatalogElement**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* CatalogElementPkg
* RecCatalog

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* |

Methods:

*No method defined*

## [Type] RPL

Direct super types:

* **AbstractCatalogElement**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* CatalogElementPkg
* RecCatalog

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* |

Methods:

*No method defined*

## [Type] CatalogElementPkg

Direct super types:

* **AbstractReElement**

Direct sub-types:

* **RecCatalog**

Possible parent elements:

* CatalogElementPkg
* 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** |
| ownedElementPkgs | COMPOSITION | [0 \*] | **CatalogElementPkg** | *defined on type* |
| ownedRecs | COMPOSITION | [0 \*] | **REC** | *defined on type* |
| ownedRpls | COMPOSITION | [0 \*] | **RPL** | *defined on type* |

Methods:

*No method defined*

## [Type] RecCatalog

Direct super types:

* **CatalogElementPkg**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* SystemEngineering
* CatalogElementPkg
* 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** |
| ownedElementPkgs | COMPOSITION | [0 \*] | **CatalogElementPkg** | **CatalogElementPkg** |
| ownedRecs | COMPOSITION | [0 \*] | **REC** | **CatalogElementPkg** |
| ownedRpls | COMPOSITION | [0 \*] | **RPL** | **CatalogElementPkg** |
| ownedCompliancyDefinitionPkg | COMPOSITION | [1 1] | **CompliancyDefinitionPkg** | *defined on type* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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** |

Methods:

*No method defined*

# [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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [Type] Interaction

Direct super types:

* **AbstractEvent**

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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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 | COMPOSITION | [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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [Type] OperationalEntity

Direct super types:

* **OperationalActor**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* EntityPkg
* 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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

# [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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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** |
| condition | String | **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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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 | COMPOSITION | [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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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** |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

# [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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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** |
| condition | String | **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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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 | COMPOSITION | [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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

# [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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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** |
| condition | String | **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* |

Methods:

*No method defined*

## [Type] PhysicalComponentPkg

Direct super types:

* **PropertyValuePkgContainer**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* PhysicalArchitecture
* PhysicalComponentPkg
* PhysicalSystem
* BehaviorPC
* NodePC
* 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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [Type] PhysicalComponent [Abstract]

Direct super types:

* **AbstractPhysicalArtifact**

Direct sub-types:

* **BehaviorPC**
* **NodePC**

Possible parent elements:

* PhysicalComponentPkg
* PhysicalSystem
* BehaviorPC
* NodePC

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* |

Methods:

*No method defined*

## [Type] BehaviorPC

Direct super types:

* **PhysicalComponent**
* **BehavioralComponent**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* PhysicalComponentPkg
* PhysicalSystem
* BehaviorPC
* NodePC

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* |

Methods:

*No method defined*

## [Type] NodePC

Direct super types:

* **PhysicalComponent**
* **CapellaElement**
* **Node**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* PhysicalComponentPkg
* PhysicalSystem
* BehaviorPC
* NodePC

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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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:

* OperationalEntity
* OperationalActor
* System
* System
* SystemActor
* SystemActor
* LogicalSystem
* LogicalSystem
* LogicalComponent
* LogicalActor
* LogicalActor
* BehaviorPC
* NodePC
* PhysicalActor
* 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** |
| ownedRegions | COMPOSITION | [0 \*] | **Region** | *defined on type* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [Type] State

Direct super types:

* **AbstractState**

Direct sub-types:

* **Mode**

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** | **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 \*] | **AbstractAction** | *defined on type* |
| do | ASSOCIATION | [0 \*] | **AbstractAction** | *defined on type* |
| exit | ASSOCIATION | [0 \*] | **AbstractAction** | *defined on type* |
| availableFunctionalChains | ASSOCIATION | [0 \*] | **FunctionalChain** | *defined on type* |
| availableOperationalProcesses | ASSOCIATION | [0 \*] | **OperationalProcess** | *defined on type* |
| availableCapabilities | ASSOCIATION | [0 \*] | **AbstractCapability** | *defined on type* |

Methods:

*No method defined*

## [Type] Mode

Direct super types:

* **State**

Direct sub-types:

*No direct sub-type*

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** | **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 \*] | **AbstractAction** | **State** |
| do | ASSOCIATION | [0 \*] | **AbstractAction** | **State** |
| exit | ASSOCIATION | [0 \*] | **AbstractAction** | **State** |
| availableFunctionalChains | ASSOCIATION | [0 \*] | **FunctionalChain** | **State** |
| availableOperationalProcesses | ASSOCIATION | [0 \*] | **OperationalProcess** | **State** |
| availableCapabilities | ASSOCIATION | [0 \*] | **AbstractCapability** | **State** |

Methods:

*No method defined*

## [Type] Pseudostate

Direct super types:

* **AbstractState**

Direct sub-types:

*No direct sub-type*

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** |
| 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** |

Methods:

*No method defined*

## [Type] Region

Direct super types:

* **CapellaElement**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* StateMachine
* State
* Mode

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* |

Methods:

*No method defined*

## [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* |
| triggers | ASSOCIATION | [0 \*] | **AbstractEvent** | *defined on type* |
| guard | ASSOCIATION | [0 1] | **Constraint** | *defined on type* |
| effects | ASSOCIATION | [0 \*] | **AbstractAction** | *defined on type* |
| realizedStateTransitions | ASSOCIATION | [0 \*] | **StateTransition** | *defined on type* |
| realizingStateTransitions | ASSOCIATION | [0 \*] | **StateTransition** | *defined on type* |

Methods:

*No method defined*

## [Type] ChangeEvent

Direct super types:

* **AbstractEvent**

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** |
| expression | 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** |

Methods:

*No method defined*

## [Type] TimeEvent

Direct super types:

* **AbstractEvent**

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 | **TimeEventKind** | *defined on type* |
| expression | 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** |

Methods:

*No method defined*

## [Type] AbstractActivityFunction [Abstract]

Direct super types:

* **CapellaElement**
* **AbstractAction**
* **AbstractEvent**
* **AbstractInstance**

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* |

Methods:

*No method defined*

## [Type] AbstractAction [Abstract]

Direct super types:

*No direct super type*

Direct sub-types:

* **AbstractActivityFunction**
* **ExchangeItem**

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

Methods:

*No method defined*

## [Type] AbstractEvent [Abstract]

Direct super types:

* **CapellaElement**

Direct sub-types:

* **Interaction**
* **ChangeEvent**
* **TimeEvent**
* **AbstractActivityFunction**
* **ExchangeItem**
* **FunctionalExchange**

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** |

Methods:

*No method defined*

## [Enumeration] PseudoStateKind

List of values:

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

Used by:

* **Pseudostate**

## [Enumeration] TimeEventKind

List of values:

* AT
* AFTER

Used by:

* **TimeEvent**

# [Package] scenario

## [Type] Scenario

Direct super types:

* **CapellaElement**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* OperationalCapability
* Capability
* CapabilityRealization

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* |
| ownedCombinedFragments | COMPOSITION | [0 \*] | **CombinedFragment** | *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* |

Methods:

*No method defined*

## [Type] InstanceRole

Direct super types:

* **CapellaElement**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* Scenario

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** |
| representedInstance | ASSOCIATION | [1 1] | **AbstractInstance** | *defined on type* |

Methods:

*No method defined*

## [Type] AbstractInstance [Abstract]

Direct super types:

*No direct super type*

Direct sub-types:

* **AbstractActivityFunction**
* **Node**
* **ExchangeItem**
* **BehavioralComponent**

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

*No relation defined*

Methods:

*No method defined*

## [Type] SequenceMessage

Direct super types:

* **CapellaElement**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* Scenario

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 | **MessageKind** | *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** |
| sendingInstanceRole | ASSOCIATION | [1 1] | **InstanceRole** | *defined on type* |
| receivingInstanceRole | ASSOCIATION | [1 1] | **InstanceRole** | *defined on type* |
| invokedExchange | ASSOCIATION | [0 1] | **AbstractExchange** | *defined on type* |
| exchangedItems | ASSOCIATION | [0 \*] | **ExchangeItem** | *defined on type* |
| invokedOperation | ASSOCIATION | [0 1] | **ExchangeItemAllocation** | *defined on type* |
| exchangeContext | ASSOCIATION | [0 1] | **Constraint** | *defined on type* |

Methods:

*No method defined*

## [Type] AbstractExchange [Abstract]

Direct super types:

*No direct super type*

Direct sub-types:

* **FunctionalExchange**
* **ComponentExchange**

Possible parent elements:

*No possible parent defined*

Attributes:

*No attribute defined*

Relations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref. name** | **Kind** | **Card.** | **Target Type** | **Defined on** |
| invokingSequenceMessages | ASSOCIATION | [0 \*] | **SequenceMessage** | *defined on type* |

Methods:

*No method defined*

## [Type] StateFragment

Direct super types:

* **CapellaElement**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* Scenario

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** |
| coveredInstanceRole | ASSOCIATION | [1 1] | **InstanceRole** | *defined on type* |
| relatedState | ASSOCIATION | [0 1] | **State** | *defined on type* |
| relatedActivityFunction | ASSOCIATION | [0 1] | **AbstractActivityFunction** | *defined on type* |

Methods:

*No method defined*

## [Type] CombinedFragment

Direct super types:

* **CapellaElement**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* Scenario

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** |
| operator | **InteractionOperatorKind** | *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** |
| operands | COMPOSITION | [1 \*] | **Operand** | *defined on type* |
| coveredInstanceRoles | ASSOCIATION | [1 \*] | **InstanceRole** | *defined on type* |

Methods:

*No method defined*

## [Type] Operand

Direct super types:

* **CapellaElement**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* CombinedFragment

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** |
| guard | ASSOCIATION | [0 1] | **Constraint** | *defined on type* |
| referencedMessages | ASSOCIATION | [0 \*] | **SequenceMessage** | *defined on type* |
| referencedFragments | ASSOCIATION | [0 \*] | **StateFragment** | *defined on type* |

Methods:

*No method defined*

## [Type] ConstraintDuration

Direct super types:

* **CapellaElement**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* Scenario

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** |
| duration | 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** |

Methods:

*No method defined*

## [Enumeration] ScenarioKind

List of values:

* INTERFACE
* DATA\_FLOW
* INTERACTION
* FUNCTIONAL

Used by:

* **Scenario**

## [Enumeration] MessageKind

List of values:

* UNSET
* ASYNCHRONOUS\_CALL
* SYNCHRONOUS\_CALL
* REPLY
* DELETE
* CREATE
* TIMER

Used by:

* **SequenceMessage**

## [Enumeration] InteractionOperatorKind

List of values:

* UNSET
* ALT
* OPT
* PAR
* LOOP
* CRITICAL
* NEG
* ASSERT
* STRICT
* SEQ
* IGNORE
* CONSIDER

Used by:

* **CombinedFragment**

# [Package] cs

## [Type] Node [Abstract]

Direct super types:

* **AbstractInstance**

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* |

Methods:

*No method defined*

## [Type] PhysicalPort

Direct super types:

* **AbstractPhysicalArtifact**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* System
* SystemActor
* LogicalSystem
* LogicalActor
* NodePC
* 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** |
| 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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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** |
| ownedExchangeItemAllocations | COMPOSITION | [0 \*] | **ExchangeItemAllocation** | *defined on type* |
| 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* |

Methods:

*No method defined*

## [Type] ExchangeItemAllocation

Direct super types:

* **CapellaElement**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* Interface

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** |
| transmissionProtocol | **CommunicationLinkProtocol** | *defined on type* |
| acquisitionProtocol | **CommunicationLinkProtocol** | *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** |
| allocatedItem | ASSOCIATION | [1 1] | **ExchangeItem** | *defined on type* |
| invokingSequenceMessages | ASSOCIATION | [0 \*] | **SequenceMessage** | *defined on type* |

Methods:

*No method defined*

## [Type] ExchangeItem

Direct super types:

* **CapellaElement**
* **AbstractAction**
* **AbstractEvent**
* **AbstractInstance**

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* |

Methods:

*No method defined*

## [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** |

Methods:

*No method defined*

## [Enumeration] ExchangeMechanism

List of values:

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

Used by:

* **ExchangeItem**

## [Enumeration] CommunicationLinkProtocol

List of values:

* UNSET
* UNICAST
* MULTICAST
* BROADCAST
* SYNCHRONOUS
* ASYNCHRONOUS
* READ
* ACCEPT

Used by:

* **ExchangeItemAllocation**

# [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* |
| condition | 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** |
| 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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [Type] FunctionInputPort

Direct super types:

* **FunctionPort**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* SystemFunction
* LogicalFunction
* 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** |
| 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* |

Methods:

*No method defined*

## [Type] FunctionOutputPort

Direct super types:

* **FunctionPort**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* SystemFunction
* LogicalFunction
* 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** |
| 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* |

Methods:

*No method defined*

## [Type] FunctionalExchange

Direct super types:

* **AbstractEvent**
* **AbstractExchange**

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** |
| invokingSequenceMessages | ASSOCIATION | [0 \*] | **SequenceMessage** | **AbstractExchange** |
| 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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [Type] FunctionalChain

Direct super types:

* **CapellaElement**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* SystemFunction
* Capability
* LogicalFunction
* CapabilityRealization
* 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** |
| 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* |

Methods:

*No method defined*

## [Type] BehavioralComponent [Abstract]

Direct super types:

* **CapellaElement**
* **AbstractInstance**

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* |

Methods:

*No method defined*

## [Type] ComponentPort

Direct super types:

* **CapellaElement**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* System
* SystemActor
* LogicalSystem
* LogicalComponent
* LogicalActor
* BehaviorPC
* 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** |
| 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* |

Methods:

*No method defined*

## [Type] ComponentExchange

Direct super types:

* **CapellaElement**
* **AbstractExchange**

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** |
| invokingSequenceMessages | ASSOCIATION | [0 \*] | **SequenceMessage** | **AbstractExchange** |
| 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* |

Methods:

*No method defined*

## [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* |

Methods:

*No method defined*

## [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 | COMPOSITION | [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* |

Methods:

*No method defined*

## [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 | COMPOSITION | [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* |

Methods:

*No method defined*

## [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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method 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*

Methods:

*No method defined*

# [Package] PVMT

## [Type] PVMT

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*

Methods:

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **Description** | **IN Param** | **Result** |
| getPVNames |  | elem: CapellaElement | pvs: String |
| isPVDefined |  | elem: CapellaElement  PVName: String | result: Boolean |
| getPVValue |  | elem: CapellaElement  PVName: String | value: String |

# [Package] Requirement

## [Type] RequirementAddOn

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*

Methods:

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **Description** | **IN Param** | **Result** |
| getRequirementModules |  | model: CapellaModel |  |
| getIncomingRequirements |  | elem: CapellaElement | reqs: Requirement |
| getOutgoingRequirements |  | elem: CapellaElement | reqs: Requirement |
| getRelationType |  | elem1: EObject  elem2: EObject | type: String |

## [Type] CapellaModule

Direct super types:

* **EObject**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

*No possible parent defined*

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | *defined on type* |
| longName | String | *defined on type* |
| name | String | *defined on type* |
| prefix | 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** |
| ownedRequirements | COMPOSITION | [0 \*] | **Requirement** | *defined on type* |

Methods:

*No method defined*

## [Type] Requirement

Direct super types:

* **EObject**

Direct sub-types:

* **Folder**

Possible parent elements:

* CapellaModule
* Folder

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | *defined on type* |
| longName | String | *defined on type* |
| name | String | *defined on type* |
| chapterName | String | *defined on type* |
| prefix | String | *defined on type* |
| text | 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** |
| ownedAttributes | COMPOSITION | [0 \*] | **Attribute** | *defined on type* |

Methods:

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **Description** | **IN Param** | **Result** |
| getIncomingLinkedElems |  |  | elems: EObject |
| getOutgoingLinkedElems |  |  | elems: EObject |

## [Type] Folder

Direct super types:

* **Requirement**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* CapellaModule
* Folder

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| id | String | **Requirement** |
| longName | String | **Requirement** |
| name | String | **Requirement** |
| chapterName | String | **Requirement** |
| prefix | String | **Requirement** |
| text | String | **Requirement** |

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** |
| ownedAttributes | COMPOSITION | [0 \*] | **Attribute** | **Requirement** |
| ownedRequirements | COMPOSITION | [0 \*] | **Requirement** | *defined on type* |

Methods:

*No method defined*

## [Type] Attribute

Direct super types:

* **EObject**

Direct sub-types:

*No direct sub-type*

Possible parent elements:

* Requirement
* Folder

Attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute type** | **Defined on** |
| name | String | *defined on type* |
| value | String | *defined on type* |
| kind | **AttributeKind** | *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** |

Methods:

*No method defined*

## [Enumeration] AttributeKind

List of values:

* Boolean
* Date
* Enumeration
* Integer
* Real
* String

Used by:

* **Attribute**