# **Package GRAUML::GRA\_WSDL**

## **Class** **WSDLInterface**

Represents a <wsdl:portType>.

|  |  |
| --- | --- |
| **Name** | WSDLInterface |
| **Abstract** | false |
| **Base Classifier** | [Interface](#_e0ea209be0d31f46f0a8bd90d6061529) |

### **Properties**

#### BindingCode

Specifies technology implementation for a <wsdl:binding>.

|  |  |
| --- | --- |
| **Type** | BindingType |
| **Default Value** | soap12 |
| **Multiplicity** | 0..1 |

## **Class** **WSDLMessage**

Represents a <wsdl:message>, it contained <part>, and its usage from a <wsdl:input>, <wsdl:output>, or a <wsdl:fault> within a <wsdl:portType> <wsdl:operation> .

|  |  |
| --- | --- |
| **Name** | WSDLMessage |
| **Abstract** | false |
| **Base Classifier** | [Message](#_ac4bab0bb89550f2e520f81f2f086254) |

### **Properties**

#### encoding

Represents the encoding style of a wsdl binding operation parameter.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### MessageLocationCode

When used in conjunction with a soap binding, indicates the location of the part within the message.

|  |  |
| --- | --- |
| **Type** | MessageLocation |
| **Default Value** | body |
| **Multiplicity** | 0..1 |

#### mimeType

Represents the <mime:content> type within a <wsdl:binding> <wsdl:operation> parameter.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### soapAction

Represents the content of a soapAction within a binding operation having a <soap:binding>.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

## **Class** **WSDLOperation**

Represents a <wsdl:Operation> within a <wsdl:binding> or <wsdl:portType>.

|  |  |
| --- | --- |
| **Name** | WSDLOperation |
| **Abstract** | false |
| **Base Classifier** | [Operation](#_65c10d7a35242983001e4b733f543ebb) |

### **Properties**

#### OperationKindCode

Represents the style of a <soap:operation> within a <wsdl:binding><wsdl:operation> which has a <soap:binding>.

|  |  |
| --- | --- |
| **Type** | OperationKind |
| **Default Value** | doc |
| **Multiplicity** | 0..1 |

## **Class** **WSDLPort**

Represents a <wsdl:port> and <wsdl:binding>.

|  |  |
| --- | --- |
| **Name** | WSDLPort |
| **Abstract** | false |
| **Base Classifier** | [Port](#_0b25caf58af39ed2264b7807a1266e2d) |

### **Properties**

#### certificate

A Documented Component

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

## **Class** **WSDLService**

Represents a <wsdl:service>.

|  |  |
| --- | --- |
| **Name** | WSDLService |
| **Abstract** | false |
| **Base Classifier** | [Service](#_8f71a9692c34e0cc5a698b816ec6f240) |

## **Class** **WSDLServiceInterface**

Represents a <wsdl:definitions>.

|  |  |
| --- | --- |
| **Name** | WSDLServiceInterface |
| **Abstract** | false |
| **Base Classifier** | [ServiceInterfaceSpecification](#_53f2dd71e6310edc37630c05f4ca8aa6) |

## **Enumeration** **BindingType**

### **Literals**

#### http\_get

#### Represents a wsdl http get binding.

#### http\_put

#### Represents a wsdl http post binding.

#### soap

#### Represents a soap binding.

#### soap12

#### Represents a wsdl soap 1.2 binding.

## **Enumeration** **MessageLocation**

### **Literals**

#### body

#### For a soap binding, indicates that the part is in the body of the message.

#### header

#### For a soap binding, indicates that the part is in the header of the message.

#### url

#### 

## **Enumeration** **OperationKind**

### **Literals**

#### doc

#### Represents a soap:operation style of "document".

#### rpc

#### Represents a soap:operation style of "rpc".

# **Package GRAUML::GRAAnnotationModel**

## **Class** **Agreement**

A data structure representing an agreement, formal or informal, associated with a service, application or thing, tangible or otherwise.

|  |  |
| --- | --- |
| **Name** | Agreement |
| **Abstract** | false |
| **Base Classifier** |  |

### **Properties**

#### AgreementDescriptionText

A free text description of an agreement, formal or informal, associated with a service, application or thing, tangible or otherwise.  
[Derived from] Element Documentation

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### AgreementURI

A locator referencing an agreement, formal or informal, associated with a service, application or thing, tangible or otherwise.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### AutomatedAgreementIndicator

Indicates whether the policy or contract represented by the Agreement has an automated implementation.

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

## **Class** **Description**

Documentation for any element contained in element documentation

|  |  |
| --- | --- |
| **Name** | Description |
| **Abstract** | false |
| **Base Classifier** |  |

### **Properties**

#### Description

Description derived from element description

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ExternalDocumentation

Relative URL of an artifact which documents the description.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

## **Class** **GRAServiceAnnotationBase**

Documentation is derived from the UML instance element owned documentation and is set by default by the documentation of the realized element, if any.

|  |  |
| --- | --- |
| **Name** | GRAServiceAnnotationBase |
| **Abstract** | true |
| **Base Classifier** |  |

### **Properties**

#### Documentation

The documentation derived from a realized element or, if not provided, the element's documentation.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### Flag

Flag provides an arbitrary extension mechanism where by any business or technology choice may be notated on the containing element. The intent is that the phase-2 transform will then respect these flags and produce the desired result. Unkown flags are ignored.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

#### ModelReference

Reference to model elements specifying this element. Notated as a realization in the UML model.

|  |  |
| --- | --- |
| **Type** | ModelReference |
| **Default Value** |  |
| **Multiplicity** | \* |

#### Name

The element name is derived from the UML Instance name and will default to the realized element name if not otherwise set.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### requirement

The service interaction requirements.

|  |  |
| --- | --- |
| **Type** | InteractionRequirements |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### Template

Template is the name of an XSLT template that will be called to process the containing element thus overriding the default mapping.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

## **Class** **IEPDReference**

A data structure describing the name and location of an IEPD. This entire structure is derived from <uses>d IEPDs.

|  |  |
| --- | --- |
| **Name** | IEPDReference |
| **Abstract** | false |
| **Base Classifier** |  |

### **Properties**

#### IEPDName

A human readable identification of the IEPD

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### IEPDURL

A URL where the IEPD is posted and available.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

## **Class** **InteractionRequirements**

The Service Interaction Requirements.

|  |  |
| --- | --- |
| **Name** | InteractionRequirements |
| **Abstract** | false |
| **Base Classifier** |  |

### **Properties**

#### IdentityAndAttributeAssertionTransmission

Does the service have identity and attribute assertion transmissions?

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### InterfaceDescriptionRequirements

Does the service have interface description requirements?

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### Logging

Does the service have logging?

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### MessageAddressing

Does the service have message addressing?

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### MessageConfidentiality

Does the service have message confidentiality?

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### MessageIntegrity

Does the service have message integrity?

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### MessageNonrepudiation

Does the service have message non-repudiation?

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### OtherRequirement

This property lists any other requirements which have to be met and on which the service depends to deliver its capabilities.  
Additional artifacts related to specific subsections of this section's content can be provided under the artifacts folder of the service package. It is suggested there be a large number of artifacts related to this section. These artifacts are included as documents or folders under the various artifacts subfolder of the artifacts folder.  
   
[Service Abbreviation] SSP [Service Version]\artifacts\various artifacts\\*  
  
If such artifacts are provided, they should be referenced in this section. A description of the artifact and a link to it should be provided as part of the reference.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | \* |

#### Reliability

Does the service have reliability?

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ServiceAuthentication

Does the service have service authentications?

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ServiceConsumerAuthentication

Does the service have service consumer authentications?

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ServiceConsumerAuthorization

Does the service have service consumer authorizations?

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ServiceMetadataAvailability

Does the service have metadata availability?

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ServiceResponsiveness

Does the service have service responsiveness?

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### TransactionSupport

Does the service have transaction support?

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

## **Class** **Interface**

Represents an abstract service interface.

|  |  |
| --- | --- |
| **Name** | Interface |
| **Abstract** | false |
| **Base Classifier** | [GRAServiceAnnotationBase](#_7fb277ad1342f3de3e2d0bb309e9a08f) |

### **Properties**

#### MessageDefault

A default message definition which is applicable to the contained operations.

|  |  |
| --- | --- |
| **Type** | Message |
| **Default Value** |  |
| **Multiplicity** | \* |

#### Operation

An operation which is contained by the interface.

|  |  |
| --- | --- |
| **Type** | Operation |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

## **Class** **Message**

[Derived from class].  
Represents the information content of parameters defined in the operations.

|  |  |
| --- | --- |
| **Name** | Message |
| **Abstract** | false |
| **Base Classifier** | [GRAServiceAnnotationBase](#_7fb277ad1342f3de3e2d0bb309e9a08f) |

### **Properties**

#### DataProvenance

Provenance is defined as the agency, office, or person of origin of records, i.e., the entity that created, received, or accumulated and used the records in the conduct of their business activities. Any applicable provenance information or restrictions should be provided in this property.  
  
Additional artifacts related to this section's content can be provided in the service model folders of the service package.  
   
[Service Abbreviation] SSP [Service Version]\artifacts\service model\information model  
  
If such artifacts are provided, they should be referenced in this section. A description of the artifact and a link to it should be provided as part of the reference.  
  
This property used to populate the Data Provenance section of the SDD document.

|  |  |
| --- | --- |
| **Type** | Organization |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

#### ElementName

Name of element, if it is an element reference.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### Namespace

Namespace of schema.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### Prefix

Prefix used to reference Schema Namespace.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### SchemaLocation

URI of Schema, relative to SPP Catalog

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### type

A reference to the model descriptor for the realized model element.

|  |  |
| --- | --- |
| **Type** | ModelReference |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### TypeName

Name of type, if it is a type reference.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### Use

THe "direction" of the message

|  |  |
| --- | --- |
| **Type** | MessageUse |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

## **Class** **Model**

A representation of the model resource associated with a ModelReference.

|  |  |
| --- | --- |
| **Name** | Model |
| **Abstract** | false |
| **Base Classifier** |  |

### **Properties**

#### Label

The name of the model.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ModelURI

URI for the model resource.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

## **Class** **ModelReference**

Model references are generated based on a realization or QVT logic.

|  |  |
| --- | --- |
| **Name** | ModelReference |
| **Abstract** | false |
| **Base Classifier** |  |

### **Properties**

#### DiagramLink

URI of a diagram associated with the model element.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

#### Documentation

The documentation of the element

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

#### ElementID

The id of the referenced model element.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### Model

The model resource containing the model reference.

|  |  |
| --- | --- |
| **Type** | Model |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### Name

The name of the element

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

## **Class** **Operation**

A data structure representing a services action information  
[Realizes] Operation

|  |  |
| --- | --- |
| **Name** | Operation |
| **Abstract** | false |
| **Base Classifier** | [GRAServiceAnnotationBase](#_7fb277ad1342f3de3e2d0bb309e9a08f) |

### **Properties**

#### ActionName

A service action performed within this service interface.  
[Derived from] Operation name

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ActionProvenance

Define any specific for this action provenance information. Reference should be made to the information model.  
Used to populate Action Model section of SDD document.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

#### ActionPurpose

A description of the Service Action purpose performed by this service interface.  
[Derived from] Operation description

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### isAsyncronous

Indicates whether or not the operation is asynchronous.

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### Message

Information model associated with a parameter.

|  |  |
| --- | --- |
| **Type** | Message |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

#### MessageExchangePattern

Represents the GRA message exchange pattern associated with the operation.

|  |  |
| --- | --- |
| **Type** | ExchangePattern |
| **Default Value** |  |
| **Multiplicity** |  |

#### SampleData

Sample Data associated with Service Testing.

|  |  |
| --- | --- |
| **Type** | SampleData |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

## **Class** **Organization**

A data structure describing a body of people grouped together for a common purpose.

|  |  |
| --- | --- |
| **Name** | Organization |
| **Abstract** | false |
| **Base Classifier** | [GRAServiceAnnotationBase](#_7fb277ad1342f3de3e2d0bb309e9a08f) |

### **Properties**

#### OrganizationAcronym

An acronym for the agency.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### OrganizationFullAddressText

A physical address of an agency in full text form.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### OrganizationPointOfContact

A person designated as the point of contact for an organization.

|  |  |
| --- | --- |
| **Type** | Person |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### OrganizationRoleDescriptionText

An organizations role defined in free form text. Examples could be creator, provider, owner, maintainer, authorities source, etc.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 1 |

#### OrganizationRoleDetailedDescriptionText

A very detailed textual explanation of the role and responsibilities of an organization.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### OrganizationWebSiteURL

An internet address of the agency's web site.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

## **Class** **Participant**

Realizes Actor

|  |  |
| --- | --- |
| **Name** | Participant |
| **Abstract** | false |
| **Base Classifier** | [Organization](#_ba9910a46cf299fc3e42b00160a48258) |

### **Properties**

|  |  |
| --- | --- |
| **Type** | Service |
| **Default Value** |  |
| **Multiplicity** |  |

## **Class** **Person**

A data structure describing a persons name and the means to contact that person.

|  |  |
| --- | --- |
| **Name** | Person |
| **Abstract** | false |
| **Base Classifier** | [GRAServiceAnnotationBase](#_7fb277ad1342f3de3e2d0bb309e9a08f) |

### **Properties**

#### ContactPersonAddress

A physical address of a person in full text form.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ContactPersonEmailID

An Email of a person.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ContactPersonPhoneNumberID

A phone number of the person designated as the point of contact for the organization.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 1 |

## **Class** **Port**

Represents a service port, realizes a UML Port on the Service Component.

|  |  |
| --- | --- |
| **Name** | Port |
| **Abstract** | false |
| **Base Classifier** | [GRAServiceAnnotationBase](#_7fb277ad1342f3de3e2d0bb309e9a08f) |

### **Properties**

#### AddressURI

The <soap:address> location of a <wsdl:port>.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### Interface

Interface realized by the Port.

|  |  |
| --- | --- |
| **Type** | Interface |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

#### MessageDefault

Default message specification for operation parameters within interfaces provided by this Port.

|  |  |
| --- | --- |
| **Type** | Message |
| **Default Value** |  |
| **Multiplicity** | \* |

#### OperationDefault

Default operation specification for operations within interfaces provided by this Port.

|  |  |
| --- | --- |
| **Type** | Operation |
| **Default Value** |  |
| **Multiplicity** | \* |

## **Class** **SampleData**

Represents the information associated with a service test: the input and expected output associated with an operation under test.

|  |  |
| --- | --- |
| **Name** | SampleData |
| **Abstract** | false |
| **Base Classifier** |  |

### **Properties**

#### ExpectedOutput

The expected output of a service operation test.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | \* |

#### Input

The value of an input parameter for an service operation test.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 1 |

## **Class** **SecurityClassification**

Any applicable classification of the security level of the information exchanged by the service, such as SBU, Secret, etc. If there is no strict classification this field can contain a brief statement regarding the security of the data.

|  |  |
| --- | --- |
| **Name** | SecurityClassification |
| **Abstract** | false |
| **Base Classifier** |  |

### **Properties**

#### SecurityClassificationText

Any applicable classification of the security level of the information exchanged by the service, such as SBU, Secret, etc. If there is no strict classification this field can contain a brief statement regarding the security of the data.  
[Derived from] Security Classification Name

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

## **Class** **Service**

Realizes component

|  |  |
| --- | --- |
| **Name** | Service |
| **Abstract** | false |
| **Base Classifier** |  |

### **Properties**

#### InterfaceDefault

Default interface specification provided for all ports owned by the service component.

|  |  |
| --- | --- |
| **Type** | Interface |
| **Default Value** |  |
| **Multiplicity** | \* |

#### MessageDefault

The default message specification for all parameters of all operations of all interfaces provided by the owned ports of the service component.

|  |  |
| --- | --- |
| **Type** | Message |
| **Default Value** |  |
| **Multiplicity** | \* |

#### OperationDefault

The default operation specification for all operations owned by the interfaces provided by the owned ports of the realized service component.

|  |  |
| --- | --- |
| **Type** | Operation |
| **Default Value** |  |
| **Multiplicity** | \* |

#### Port

The port specification for the ports owned by the service component realizing this Service.

|  |  |
| --- | --- |
| **Type** | Port |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

#### ServiceOfParticipant

|  |  |
| --- | --- |
| **Type** | Participant |
| **Default Value** |  |
| **Multiplicity** |  |

## **Class** **ServiceCapability**

A free text format description of the capability provided by a service.

|  |  |
| --- | --- |
| **Name** | ServiceCapability |
| **Abstract** | false |
| **Base Classifier** |  |

### **Properties**

#### CapabilityDescriptionText

A free text format description of the capability provided by a service.  
[Derived from] Element Documentation

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

## **Class** **ServiceDescription**

A data structure representing the details describing a service.  
[Realizes] Collaboration  
[Uses] IEPD

|  |  |
| --- | --- |
| **Name** | ServiceDescription |
| **Abstract** | false |
| **Base Classifier** | [ServiceIdentification](#_8b00336fb2bce8396545b6dfe6bdc892) |

### **Properties**

#### ActivationDate

A date when a service was or will be first available in production. Do NOT confuse with the date you submitted this service to a registry. The format is YYYY-MM.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### AdditionalInformation

This property contains any additional information pertinent to the service which should be included in this document but does not belong in the document sections above. This could be information about future capabilities the service could provide, information regarding specific conditions which govern the use of the service, information regarding specific domain capabilities the service fulfills, etc. If required, subsections can be created to further structure the information provided in this section.  
  
Additional artifacts related to this section's content can be provided in the artifacts folder of the service package.  
   
[Service Abbreviation] SSP [Service Version]\artifacts  
  
If such artifacts are provided, they should be referenced in this section. A description of the artifact and a link to it should be provided as part of the reference.  
  
This property used to populate the Additional Information section of the SDD document.

|  |  |
| --- | --- |
| **Type** | Description |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

#### AlertsAndNotifications

A URL to sign up for alerts and notifications for a specific service

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

#### Classification

A collection of classifications defining the relationship between a service and an applicable enterprise architecture and business reference model.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### CreationDate

A date designation when a service was first created. Do NOT to be confuse with the date a service is submitted to a registry. The format is YYYY-MM. Set by default to todayt.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### DomainDescription

A primary domain or line of business (LoB) that a service covers.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### Endorsements

A collection of names and acronyms of professional or governmental organizations or people that endorse this service as an official business exchange.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

#### ExchangePartner

A collection of the types/categories of organizations that would commonly use a service.  
[Derived from] Role in collaboration

|  |  |
| --- | --- |
| **Type** | Participant |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

#### ExecutionContext

Service descriptions should include all information pertinent to the production or consumption of the service, including expected infrastructure functions and other dependencies. No information directly pertaining to implementation platform or technology should be included in the service description. Conversely, platform capabilities which are technology-independent should be included. For example, stating in the service description that services that are encrypted are being provided by the infrastructure is preferred compared to stating that the Public Key Infrastructure (PKI) infrastructure is expected. It is expected that the services defined using this document will minimize the dependence on specific technical infrastructure to provide the greatest flexibility and interoperability for service providers and service consumers.   
  
It is also important to note that the information in this property will be applicable to more than one service, and these required capabilities will be provisioned as part of the infrastructure layer of the architecture. For instance, if information is to be exchanged securely within the execution context, enabling this functionality at the infrastructure level and not per a specific SSP or SIP is the strongly preferred direction for enabling the GRA. In other words, these commonly used technical functions would be most effectively achieved by an infrastructure solution which supports the GRA.

|  |  |
| --- | --- |
| **Type** | Description |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ExpirationDate

A year and month (YYYY-MM) this service is expected to be no longer available (if applicable).

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### IEPDReference

A set or reference information identifying an Information Exchange Package Document which the service uses in its data model  
[Derived from] <Uses> relation to IEPD

|  |  |
| --- | --- |
| **Type** | IEPDReference |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

#### LastRevisionDate

A date with the year and month specifying when this service information was last revised. Do NOT confuse with the date the service itself was last revised with generating new service documentation. The format is YYYY-MM. Set by default.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### LifecycleStatus

A word indicating the current stage of the service within the development lifecycle. Valid values are; In Design, In Development, Release Candidate, Operational/Production, Deprecated

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### MajorVersion

A value identifying the primary version number. Defaults to 1.

|  |  |
| --- | --- |
| **Type** | Integer |
| **Default Value** |  |
| **Multiplicity** | 1 |

#### MinorVersion

A value designating a minor version number. Defaults to 0.

|  |  |
| --- | --- |
| **Type** | Integer |
| **Default Value** |  |
| **Multiplicity** | 1 |

#### NextRevisionDate

A year and month (YYYY-MM) a service is expected to be revised.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### Privacy

While service descriptions are technology-agnostic and do not detail the physical model of a service, certain privacy requirements are applicable to the service and need to be carried through all its implementations. This property outlines those requirements.  
Value is used to populate the Privacy section of the SDD Document.

|  |  |
| --- | --- |
| **Type** | Description |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### RealWorldEffect

A collection of the Real World Effects Provided by the Service.

|  |  |
| --- | --- |
| **Type** | UseCase |
| **Default Value** |  |
| **Multiplicity** |  |

#### RelatedOrganization

A collection of organizations that are somehow related to the service.

|  |  |
| --- | --- |
| **Type** | Organization |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

#### RevisionVersion

A value designating a minor version revision number.

|  |  |
| --- | --- |
| **Type** | Integer |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### Security

While service descriptions are technology-agnostic and do not detail the physical model of a service, certain security requirements are applicable to the service and need to be carried through all its implementations. This property outlines those requirements.  
The value is used to populate the Security section of the SDD document.

|  |  |
| --- | --- |
| **Type** | Description |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ServiceAssumption

This property lists all assumptions on which the service depends to deliver its real-world effects.

|  |  |
| --- | --- |
| **Type** | Description |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ServiceCapabilities

An enumeration of the capabilities provided by a service. The capabilities will be described in a free text format.

|  |  |
| --- | --- |
| **Type** | ServiceCapability |
| **Default Value** |  |
| **Multiplicity** | 1..\* |

#### ServiceDependency

A specific service upon which a service directly depends to deliver its real world effects.

|  |  |
| --- | --- |
| **Type** | ServiceIdentification |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

#### ServiceDescription

A human readable narrative description of this service—may contain as much detail as you think useful to those with a potential interest in this service and its business usage/application.  
[Derived from] Element Documentation

|  |  |
| --- | --- |
| **Type** | Description |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ServiceDescriptionKeywordText

A search term that would not otherwise be in other metadata attributes (e.g., Child Support Warrant, Domestic Relations Warrant, Domestics).

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

#### ServiceDescriptionSummaryText

A brief summary of this service for short display purposes.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ServiceDescriptionURI

URI of the Service Description Document, relative to the SSP Catalog.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ServiceInteraction

A Documented Component

|  |  |
| --- | --- |
| **Type** | ServiceInteraction |
| **Default Value** |  |
| **Multiplicity** |  |

#### ServiceInterface

A set of details relating to the interface of a service.

|  |  |
| --- | --- |
| **Type** | ServiceInterfaceSpecification |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

#### ServiceLevelAgreement

A collection of policies, agreements, licensing and any other goverenace or performance documentation specifying constraints and any other details regarding the realization of a service.

|  |  |
| --- | --- |
| **Type** | ServiceLevelAgreement |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

#### ServicePurpose

A purpose which the service intends or resolves, to perform or accomplish.

|  |  |
| --- | --- |
| **Type** | Description |
| **Default Value** |  |
| **Multiplicity** | 1 |

#### ServiceScopeDescription

A definition of the scope of a service.

|  |  |
| --- | --- |
| **Type** | Description |
| **Default Value** |  |
| **Multiplicity** | 1 |

#### ServiceSecurityClassification

Any applicable classification of the security level of the information exchanged by the service, such as SBU, Secret, etc. If there is no strict classification this field can contain a brief statement regarding the security of the data.

|  |  |
| --- | --- |
| **Type** | SecurityClassification |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### Sponsors

A collection of professional or governmental organization(s) or person that sponsored, contributed, or participated in the development of a service.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### TransformationURI

URI of an XSLT that transforms the skeleton SSP into a final one as the "phase-2" transform.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

## **Class** **ServiceIdentification**

A data structure representing the means of uniquely identifying a service.

|  |  |
| --- | --- |
| **Name** | ServiceIdentification |
| **Abstract** | false |
| **Base Classifier** | [GRAServiceAnnotationBase](#_7fb277ad1342f3de3e2d0bb309e9a08f) |

### **Properties**

#### ServiceID

An identification of the service in a service registry and/or repository.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ServiceNameAbbreviationText

A human readable abbreviation of the Service Name.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ServiceURI

A fully qualified locator of the service interface potentially including version and environment.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

## **Class** **ServiceInteraction**

Exchanges between parties as an interaction diagram

|  |  |
| --- | --- |
| **Name** | ServiceInteraction |
| **Abstract** | false |
| **Base Classifier** | [GRAServiceAnnotationBase](#_7fb277ad1342f3de3e2d0bb309e9a08f) |

### **Properties**

#### Participant

Realizes Actor

|  |  |
| --- | --- |
| **Type** | Participant |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

## **Class** **ServiceInteractionProfile**

A data structure containing information about the Service Interaction Profile Implemented

|  |  |
| --- | --- |
| **Name** | ServiceInteractionProfile |
| **Abstract** | false |
| **Base Classifier** |  |

### **Properties**

#### SIPName

A name of the Service Interaction Profile Implemented.  
[Derived from] SIP Name

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 1 |

#### SIPVersion

A version of the Service Interaction Profile Implemented

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** | 1 |
| **Multiplicity** | 1 |

## **Class** **ServiceInterfaceSpecification**

A data type representing details relating to the interface of a service.

|  |  |
| --- | --- |
| **Name** | ServiceInterfaceSpecification |
| **Abstract** | false |
| **Base Classifier** | [GRAServiceAnnotationBase](#_7fb277ad1342f3de3e2d0bb309e9a08f) |

### **Properties**

#### InterfaceDefault

Default interface specification for all provided interfaces of ports of all service components realized by contained Services.

|  |  |
| --- | --- |
| **Type** | Interface |
| **Default Value** |  |
| **Multiplicity** | \* |

#### MessageDefault

Default message specification for all parameters of all operations owned by provided interfaces of ports of all service components realized by contained Services.

|  |  |
| --- | --- |
| **Type** | Message |
| **Default Value** |  |
| **Multiplicity** | \* |

#### MessageDefinitionMechanism

This propoerty includes information about the message definition mechanism utilized by the service actions.  
  
Per the GRA, message definition mechanisms are closely related to the interface description requirements. Unlike interface description requirements, message definition mechanisms establish a standard way of defining the structure and contents of a message.  
  
Additional artifacts related to this section's content can be provided in the artifacts folder of the service package.  
   
[Service Abbreviation] SSP [Service Version]\artifacts  
  
If such artifacts are provided, they should be referenced in this section. A description of the artifact and a link to it should be provided as part of the reference.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 1..\* |

#### OperationDefault

Default operation specification for all operations owned by provided interfaces of ports of all service components realized by contained Services.

|  |  |
| --- | --- |
| **Type** | Operation |
| **Default Value** |  |
| **Multiplicity** | \* |

#### PortDefault

Default port specification for all ports of all service components realized by contained Services.

|  |  |
| --- | --- |
| **Type** | Port |
| **Default Value** |  |
| **Multiplicity** | \* |

#### Prefix

Prefix to be used for target namespace of (WSDL) Service Specification.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 1 |

#### Provider

|  |  |
| --- | --- |
| **Type** | Service |
| **Default Value** |  |
| **Multiplicity** | 1..\* |

#### SecurityDescriptionText

A text description that identifies the security which was implemented to protect this service interface (GFIPM, Trusted Broker, etc)

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### SecurityImplementedIndicator

True when security has been implemented to access this service.False otherwise.

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** | true |
| **Multiplicity** | 1 |

#### ServiceInteractionProfile

A set of information about the Service Interaction Profile Implemented.

|  |  |
| --- | --- |
| **Type** | ServiceInteractionProfile |
| **Default Value** |  |
| **Multiplicity** | 1 |

#### ServiceInterfaceDescriptionURI

URI of the Service Interface Description document, potentially including version and environment.  
[derived from] Element name.  
The URI is relative to the SSP Catalog.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ServiceTesting

|  |  |
| --- | --- |
| **Type** | Description |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### TargetNamespace

Target namespace of the (WSDL) Service Interface.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 1 |

#### URIAddress

URI of the (WSDL) service interface potentially including version and environment.  
[derived from] Element name.  
The URI is relative to the SSP Catalog.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### URIDescription

A description of the URI. This would provide better understanding of what is actually at the URI address.  
[derived from] Element description

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

## **Class** **ServiceLevelAgreement**

A collection of policies, agreements, licensing and any other goverenace or performance documentation specifying constraints and any other details regarding the realization of a service.

|  |  |
| --- | --- |
| **Name** | ServiceLevelAgreement |
| **Abstract** | false |
| **Base Classifier** |  |

### **Properties**

#### Agreement

A description or reference to an applicable Agreement or MOU governing the use, administration, or implementation of a service.

|  |  |
| --- | --- |
| **Type** | Agreement |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

#### ApplicableAgreementsIndicator

True when there are any applicable agreements or Memoranda Of Understanding (MOUs) relating to the use, administration, or implementation of a service; False otherwise.

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** |  |
| **Multiplicity** | 1 |

#### ApplicableContract

A formal contract associated with a service, application, process, tranaction, or thing, tangible or otherwise.

|  |  |
| --- | --- |
| **Type** | Agreement |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

#### ApplicableContractsIndicator

True when there are any applicable contracts relating to the use, administration, or implementation of a service; False otherwise.

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** |  |
| **Multiplicity** | 1 |

#### ApplicablePolicies

A collection of all policies that in some way constrain, govern, or control the usage of a service, application, process. etc.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ApplicablePoliciesIndicator

True when there are any applicable policies governing the use, administration, or implementation of a service; False otherwise.

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** |  |
| **Multiplicity** | 1 |

#### ApplicableUmbrellaAgreementsIndicator

True when there are any applicable umbrella agreements relating to the use, administration, or implementation of a service; False otherwise.

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** |  |
| **Multiplicity** | 1 |

#### ApprovalRequiredIndicator

True when a permission must first be obtained prior to using a service or performing some action in a business process; False otherwise.

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** |  |
| **Multiplicity** | 1 |

#### CreationCostAmount

A cost create a thing, such as an application or service This includes the full cost to design, manage, develop, test, implement and maintain. Currency text may preceded or follow amount.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### LicensingAgreement

A type of licensing for a service or application. Descriptive values could be In House, No License, Open Source, Purchase License, etc.

|  |  |
| --- | --- |
| **Type** | Agreement |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### LicensingRequiredIndicator

True when a license is required to use a service or application; False otherwise.

|  |  |
| --- | --- |
| **Type** | Boolean |
| **Default Value** |  |
| **Multiplicity** | 1 |

#### ServiceAvailability

A description or measurement of the expected availbility that a service is usable.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ServiceAverageThroughput

A description of how often a service is expected to be, or actually used, averaged over a period of time.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ServiceMaximumThroughput

A description of the limit of how often a service is able to be accessed or used at, over a period of time during peak capacity.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### ServiceResponseTime

A description of the average response time for a service. The response time is calculated as the time input is provided to the service until the service completes its process or provides output for the consumer.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** | 10 |
| **Multiplicity** | 1 |

#### UmbrellaAgreement

An umbrella agreement that in some way constrain, govern, or control the usage of a service, application, process. etc.

|  |  |
| --- | --- |
| **Type** | Agreement |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

#### UsageCostAmount

A total cost to use something, such as a service, etc. Currency text may preceded or follow amount.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

#### UsageUnitCostAmount

A cost associated with a service(e.g. transaction, unlimited transactions, minutes of use). Currency text may preceded or follow amount.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..1 |

## **Class** **UseCase**

[Derived from] Use case or package with use cases

|  |  |
| --- | --- |
| **Name** | UseCase |
| **Abstract** | false |
| **Base Classifier** | [GRAServiceAnnotationBase](#_7fb277ad1342f3de3e2d0bb309e9a08f) |

### **Properties**

#### Consumer

A Documented Component

|  |  |
| --- | --- |
| **Type** | Participant |
| **Default Value** |  |
| **Multiplicity** | \* |

#### Provider

A Documented Component

|  |  |
| --- | --- |
| **Type** | Participant |
| **Default Value** |  |
| **Multiplicity** | \* |

#### RealWorldEffectDescriptionText

A free text description of a real world effect provided by a Service.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Multiplicity** | 0..\* |

## **Enumeration** **ExchangePattern**

Represents a GRA Exchange Pattern.  
This type should define the message exchange patterns leveraged by the service actions.  
The GRA recognizes the following message exchange patterns:  
The FIRE-AND-FORGET pattern calls for the sender of a message (which could be the service consumer or service) to send the message and not expect a reply message back from the recipient. This pattern is useful for one-way transmission of information, such as notification that an event has occurred.  
The REQUEST-REPLY pattern calls for the sender of a message to send the message and expect a reply from the recipient.  
These two patterns are considered “primitive” patterns, in that they are the fundamental building blocks of more complex information exchange scenarios. For instance, the complex PUBLISH-SUBSCRIBE pattern involves an initial request-reply exchange in which the subscriber subscribes to a service, followed by the service using the fire-and-forget pattern to notify subscribers of an event.  
Within the service interface description, the behavioral model should describe message exchanges in terms of these two primitive exchange patterns. Each action can specify a different message exchange pattern.

### **Literals**

#### Enquiery

#### 

#### Message

#### 

#### Notification

#### 

#### Subscription

#### 

#### Update

#### 

## **Enumeration** **MessageUse**

Defines the direction of a message associated with the parameters and exceptions of an operation.

### **Literals**

#### exception

#### Specifies that the usage for the message is as a fault, or exception, on the operation.

#### in

#### Specifies that the corresponding operation parameter has an in direction.

#### inout

#### Specifies that the corresponding operation parameter has an in and out direction.

#### out

#### Specifies that the corresponding operation parameter has an out direction.